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Inhibitors, Agonists, Screening Libraries

# Phospholipase

Phospholipase is a member of a very complex group of enzymes that break down phospholipids into fatty acids and other compounds. Phospholipases are defined by the enzymatic reaction they catalyze. The classes are phospholipase A, which has members A1 and A2; phospholipase B, which can carry out the reactions of both A1 and A2; phospholipase C; and phospholipase D.

Phospholipase A<sub>2</sub> (PLA<sub>2</sub>) catalyses the hydrolysis of the sn-2 position of glycerophospholipids to yield fatty acids and lysophospholipids. Phospholipase C (PLC) converts phosphatidylinositol 4,5-bisphosphate (PIP<sub>2</sub>) to inositol 1,4,5-trisphosphate (IP<sub>3</sub>) and diacylglycerol (DAG). DAG and IP<sub>3</sub> each control diverse cellular processes and are also substrates for synthesis of other important signaling molecules. PLC is thus central to many important interlocking regulatory networks. Phospholipase D (PLD) is an essential enzyme responsible for the production of the lipid second messenger phosphatidic acid (PA), which is involved in fundamental cellular processes, including membrane trafficking, actin cytoskeleton remodeling, cell proliferation and cell survival.

## Phospholipase Inhibitors, Antagonists & Activators

### 1-Linoleoyl Glycerol

(1-Linoleoyl-*rac*-glycerol; 1-Monolinolein)

Cat. No.: HY-111346

1-Linoleoyl Glycerol is a fatty acid glycerol that has been isolated from *S. chinensis* roots.



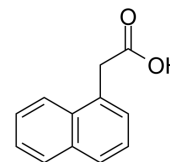
**Purity:** >98.0%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM × 1 mL, 100 mg, 500 mg

### 1-Naphthaleneacetic acid

(1-Naphthylacetic acid)

Cat. No.: HY-18570

1-Naphthaleneacetic acid (1-Naphthylacetic acid), a synthetic auxin, can promote plant growth. 1-Naphthaleneacetic acid also is an inhibitor of PLA<sub>2</sub>, with an IC<sub>50</sub> of 13.16 μM.



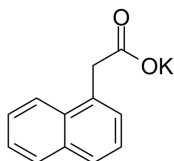
**Purity:** 99.82%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM × 1 mL, 500 mg, 5 g

### 1-Naphthaleneacetic acid potassium salt

(Potassium 1-Naphthaleneacetate)

Cat. No.: HY-18570A

1-Naphthaleneacetic acid potassium salt (Potassium 1-Naphthaleneacetate), a synthetic auxin, can promote plant growth. 1-Naphthaleneacetic acid potassium salt also is an inhibitor of PLA<sub>2</sub>, with an IC<sub>50</sub> of 13.16 μM.

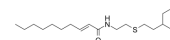


**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 1 mg, 5 mg

### 2-(E-2-decenoylamino)ethyl 2-(cyclohexylethyl) sulfide

Cat. No.: HY-100287

2-(E-2-decenoylamino)ethyl 2-(cyclohexylethyl) sulfide is a compound that inhibits stress-induced ulcer and low toxicity, and can maintain the content of phospholipase A2 and prostaglandin E2 in ulcerated rats induced by water immersed restrained stress.

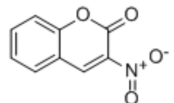


**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 1 mg, 5 mg

### 3-Nitrocoumarin

Cat. No.: HY-111919

3-Nitrocoumarin (3-NC) is a potent and selective Phospholipase C-γ (PLC-γ) inhibitor.

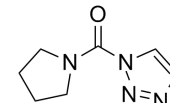


**Purity:** 100.00%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

### AA26-9

Cat. No.: HY-18522

AA26-9 is a potent and broad spectrum serine hydrolase inhibitor. AA26-9 targets included serine peptidases, lipases, amidases, esterases, and thioesterases. AA26-9 shows inhibitory activity against approximately 1/3 of the 40+ serine hydrolases detected in immortalized T cell lines.

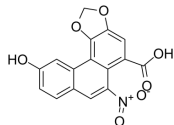


**Purity:** 98.03%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

### Aristolochic acid C

Cat. No.: HY-N1450

Aristolochic acid C is a derivative of Aristolochic acid. Aristolochic acid is a phospholipase A<sub>2</sub> (PLA<sub>2</sub>) inhibitor, which disrupts cortical microtubule arrays and root growth in *Arabidopsis*.



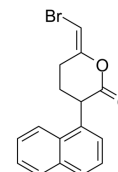
**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 1 mg, 5 mg

### Bromoenoil lactone

((6E)-Bromoenoil lactone)

Cat. No.: HY-107411

Bromoenoil lactone ((6E)-Bromoenoil lactone) is a suicide-based irreversible, selective, potent inhibitor of calcium-independent phospholipase A<sub>2</sub> (iPLA<sub>2</sub>β) with an IC<sub>50</sub> value of approximately 7 μM, which inhibits antigen-stimulated mast cell exocytosis without blocking Ca<sup>2+</sup> influx.

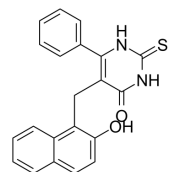


**Purity:** >98.0%  
**Clinical Data:** No Development Reported  
**Size:** 10 mg, 25 mg, 50 mg, 100 mg

### Cambinol

Cat. No.: HY-100732

Cambinol is a SIRT1 and SIRT2 inhibitor with IC<sub>50</sub> values of 56 μM and 59 μM, respectively. Cambinol is a potent brain penetrant neutral sphingomyelinase (N-SMase) inhibitor (exosome inhibitor).

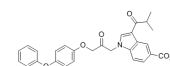


**Purity:** 99.70%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

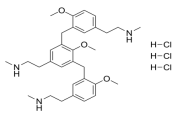
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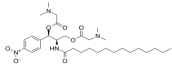
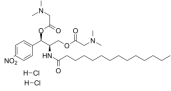
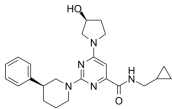
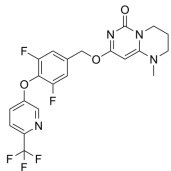
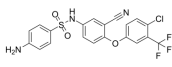
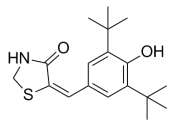
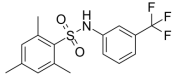

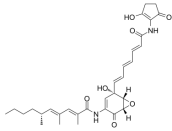

Cat. No.: HY-10801

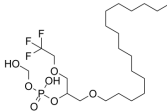
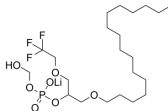
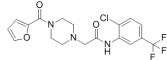
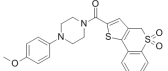
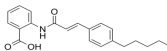
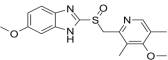
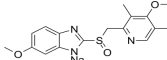
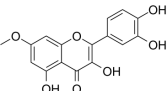
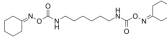
CAY10650 is a highly potent cytosolic phospholipase A2α (cPLA<sub>2</sub>α) inhibitor with an IC<sub>50</sub> value of 12 nM. CAY10650 suppresses lipid droplets formation and PGE<sub>2</sub> secretion.



**Purity:** >98.0%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg

<p><b>Compound 48/80 trihydrochloride</b> (C48/80 trihydrochloride)</p> <p>Compound 48/80 trihydrochloride (C48/80 trihydrochloride) is a mixture of condensation products of N-methyl-p-methoxyphenethylamine with formaldehyde. Compound 48/80 trihydrochloride is also a histamine releaser and a mast cell degranulator.</p> <p><b>Purity:</b> &gt;98% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 1 mg, 5 mg</p>	<p><b>Cat. No.:</b> HY-130592</p>  <p><b>Purity:</b> &gt;98% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 5 mg, 10 mg, 25 mg, 50 mg</p>
<p><b>D609</b></p> <p><b>Cat. No.:</b> HY-70072</p> <p>D609 is a selective competitive inhibitor of phosphatidyl choline-specific phospholipase C (PC-PLC), with <math>K_i</math> of 6.4 <math>\mu\text{M}</math>.</p> <p><b>Purity:</b> &gt;98.0% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg, 50 mg</p>	<p><b>Darapladib</b> (SB-480848)</p> <p><b>Cat. No.:</b> HY-10521</p> <p>Darapladib is a potent inhibitor of lipoprotein-associated phospholipase A2 (Lp-PLA<sub>2</sub>) with <math>\text{IC}_{50}</math> of 0.25 nM.</p> <p><b>Purity:</b> 99.95% <b>Clinical Data:</b> Phase 3 <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg, 50 mg</p>
<p><b>Ecopladib</b> (PLA 725)</p> <p><b>Cat. No.:</b> HY-U00037</p> <p>Ecopladib is a sub-micromolar inhibitor of cytosolic phospholipase A2<math>\alpha</math> (cPLA2<math>\alpha</math>), with <math>\text{IC}_{50}</math>s of 0.15 <math>\mu\text{M}</math> and 0.11 <math>\mu\text{M}</math> in the GLU micelle and rat whole blood assays, respectively.</p> <p><b>Purity:</b> 95.00% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM <math>\times</math> 1 mL, 1 mg</p>	<p><b>FIPI</b> (5-Fluoro-2-indolyl deschlorhalopemide)</p> <p><b>Cat. No.:</b> HY-12807</p> <p>FIPI is a derivative of halopemide which potently inhibits both PLD1 and PLD2 with <math>\text{IC}_{50}</math>s of 25 nM and 20 nM, respectively.</p> <p><b>Purity:</b> 99.49% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p><b>GW4869</b></p> <p><b>Cat. No.:</b> HY-19363</p> <p>GW4869 is a noncompetitive neutral sphingomyelinase (N-SMase) inhibitor with an <math>\text{IC}_{50}</math> of 1 <math>\mu\text{M}</math>. GW4869 is an inhibitor of exosome biogenesis/release.</p> <p><b>Purity:</b> 95.26% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 2 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>	<p><b>Halopemide</b></p> <p><b>Cat. No.:</b> HY-119093</p> <p>Halopemide is a potent phospholipase D (PLD) inhibitor, with <math>\text{IC}_{50}</math>s of 220 and 310 nM for human PLD1 and PLD2, respectively. Halopemide is a dopamine receptors antagonist, and acts a psychotropic agent.</p> <p><b>Purity:</b> &gt;99.0% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg</p>
<p><b>Lansoprazole</b> (AG-1749)</p> <p><b>Cat. No.:</b> HY-13662</p> <p>Lansoprazole (AG 1749) is an orally active proton pump inhibitor which prevents the stomach from producing acid. Lansoprazole (AG 1749) is a potent brain penetrant neutral sphingomyelinase (N-SMase) inhibitor (exosome inhibitor).</p> <p><b>Purity:</b> &gt;98.0% <b>Clinical Data:</b> Launched <b>Size:</b> 10 mM <math>\times</math> 1 mL, 500 mg, 1 g, 5 g</p>	<p><b>Lansoprazole sodium</b> (AG-1749 sodium)</p> <p><b>Cat. No.:</b> HY-13662A</p> <p>Lansoprazole sodium (AG 1749 sodium) is an orally active proton pump inhibitor which prevents the stomach from producing acid. Lansoprazole sodium (AG 1749 sodium) is a potent brain penetrant neutral sphingomyelinase (N-SMase) inhibitor (exosome inhibitor).</p> <p><b>Purity:</b> &gt;98% <b>Clinical Data:</b> Launched <b>Size:</b> 500 mg</p>

<p><b>LCL521</b></p> <p style="text-align: right;">Cat. No.: HY-103593</p>	<p><b>LCL521 dihydrochloride</b></p> <p style="text-align: right;">Cat. No.: HY-103593A</p>
<p>LCL521 is an <b>acid ceramidase (ACDase)</b> inhibitor. LCL521 also inhibits the lysosomal <b>acid sphingomyelinase (ASMase)</b>.</p> <p style="text-align: center;"></p> <p><b>Purity:</b> &gt;95.0%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>LCL521 dihydrochloride is an <b>acid ceramidase (ACDase)</b> inhibitor. LCL521 also inhibits the lysosomal <b>acid sphingomyelinase (ASMase)</b>.</p> <p style="text-align: center;"></p> <p><b>Purity:</b> 98.23%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p><b>LEI-401</b></p> <p style="text-align: right;">Cat. No.: HY-131181</p> <p>LEI-401 is a first-in-class, selective, and CNS-active <b>NAPE-PLD</b> (N-acylphosphatidylethanolamine phospholipase D) inhibitor, with an <math>IC_{50}</math> of 27 nM. LEI-401 modulates emotional behavior in mice.</p> <p style="text-align: center;"></p> <p><b>Purity:</b> 99.93%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>	<p><b>Lp-PLA2-IN-1</b></p> <p style="text-align: right;">Cat. No.: HY-19757</p> <p>Lp-PLA2-IN-1 is a potent <b>Lipoprotein-associated phospholipase A2 (Lp-PLA2)</b> inhibitor. Lp-PLA2-IN-1 has the potential for atherosclerosis, Alzheimer's disease research.</p> <p style="text-align: center;"></p> <p><b>Purity:</b> 99.46%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p><b>Lp-PLA2-IN-3</b></p> <p style="text-align: right;">Cat. No.: HY-133149</p> <p>Lp-PLA2-IN-3 is a potent and orally bioavailable <b>lipoprotein-associated phospholipase A2 (Lp-PLA2)</b> inhibitor, with an <math>IC_{50}</math> of 14 nM for recombinant human Lp-PLA2 (rhLpPLA2).</p> <p style="text-align: center;"></p> <p><b>Purity:</b> 99.47%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p><b>LY 178002</b></p> <p style="text-align: right;">Cat. No.: HY-101579</p> <p>LY 178002 is a potent inhibitor of <b>5-lipoxygenase (5-LPO)</b>, <b>phospholipase A2</b>, with <math>IC_{50}</math> of 0.6 <math>\mu</math>M for 5-lipoxygenase, inhibits cellular production of LTB<sub>4</sub> by human polymorphonuclear leukocytes, and shows relatively weak inhibition on <b>cyclooxygenase</b>.</p> <p style="text-align: center;"></p> <p><b>Purity:</b> &gt;98%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 1 mg, 5 mg</p>
<p><b>m-3M3FBS</b></p> <p style="text-align: right;">Cat. No.: HY-19619</p> <p>m-3M3FBS is a potent <b>phospholipase C (PLC)</b> activator. m-3M3FBS stimulates superoxide generation in human neutrophils, upregulates intracellular calcium concentration, and stimulates inositol phosphate generation in various cell lines.</p> <p style="text-align: center;"></p> <p><b>Purity:</b> &gt;98%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>	<p><b>MAFP</b> (Methyl Arachidonyl Fluorophosphonate)</p> <p style="text-align: right;">Cat. No.: HY-103334</p> <p>MAFP (Methyl Arachidonyl Fluorophosphonate) is a selective, active-site directed and irreversible inhibitor of <b>cPLA2</b> and <b>iPLA2</b>. MAFP is also a potent irreversible inhibitor of <b>anandamide amidase</b>.</p> <p style="text-align: center;"></p> <p><b>Purity:</b> &gt;98.0%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 5 mg (27 mM * 500 <math>\mu</math>L in Methyl acetate)</p>
<p><b>Manumycin A</b></p> <p style="text-align: right;">Cat. No.: HY-N6796</p> <p>Manumycin A is an antibiotic. Manumycin A acts as a selective, competitive inhibitor of protein <b>farnesyltransferase (FTase)</b> with respect to farnesylpyrophosphate (<math>K_i = 1.2 \mu</math>M), and as a noncompetitive inhibitor with respect to the <b>Ras</b> protein.</p> <p style="text-align: center;"></p> <p><b>Purity:</b> &gt;98%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 5 mg</p>	<p><b>Melittin</b></p> <p style="text-align: right;">Cat. No.: HY-P0233</p> <p>Melittin is a <b>PLA<sub>2</sub></b> activator, stimulates the activity of the low molecular weight PLA<sub>2</sub>, while it does not the increase activity of the high molecular weight PLA<sub>2</sub>.</p> <p style="text-align: center;"></p> <p><b>Purity:</b> &gt;98%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 1 mg, 5 mg, 10 mg</p>

<p><b>Melittin TFA</b></p> <p style="text-align: right;">Cat. No.: HY-P0233A</p>	<p><b>MJ33-OH</b></p> <p style="text-align: right;">Cat. No.: HY-129944</p>
<p>Melittin TFA is a <b>PLA<sub>2</sub></b> activator, stimulates the activity of the low molecular weight PLA<sub>2</sub>, while it does not increase the activity of the high molecular weight PLA<sub>2</sub>.</p> <p style="text-align: right;"><small>GIGAVLKVLTGGLPALISWIKRKRQQ-NH<sub>2</sub> (TFA salt)</small></p> <p><b>Purity:</b> 99.56%</p> <p><b>Clinical Data:</b> No Development Reported</p> <p><b>Size:</b> 5 mg, 10 mg</p>	<p>MJ33-OH is a metabolite of MJ33. MJ33 is an active-site-directed, specific, competitive, and reversible <b>phospholipase A2 (PLA2)</b> inhibitor. MJ33 blocks the calcium-independent phospholipase A2 (iPLA2) activity of Prdx6.</p>  <p><b>Purity:</b> &gt;98%</p> <p><b>Clinical Data:</b> No Development Reported</p> <p><b>Size:</b> 1 mg, 5 mg</p>
<p><b>MJ33-OH lithium</b></p> <p style="text-align: right;">Cat. No.: HY-129944A</p>	<p><b>ML348</b> (GNF-Pf-1127)</p> <p style="text-align: right;">Cat. No.: HY-100736</p>
<p>MJ33-OH lithium is a metabolite of MJ33. MJ33 is an active-site-directed, specific, competitive, and reversible <b>phospholipase A2 (PLA2)</b> inhibitor. MJ33 blocks the calcium-independent phospholipase A2 (iPLA2) activity of Prdx6.</p>  <p><b>Purity:</b> &gt;98%</p> <p><b>Clinical Data:</b> No Development Reported</p> <p><b>Size:</b> 1 mg, 5 mg</p>	<p>ML348 is a selective and reversible <b>lysophospholipase 1 (LYPLA1)</b> inhibitor with an <b>IC<sub>50</sub></b> of 210 nM, and barely inhibits LYPLA2.</p>  <p><b>Purity:</b> 99.88%</p> <p><b>Clinical Data:</b> No Development Reported</p> <p><b>Size:</b> 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p><b>ML349</b></p> <p style="text-align: right;">Cat. No.: HY-100737</p>	<p><b>N-(p-aminocinnamoyl) Anthranilic Acid (ACA)</b></p> <p style="text-align: right;">Cat. No.: HY-118628</p>
<p>ML349 is a potent and specific <b>acyl protein thioesterase 2 (APT-2)</b> inhibitor with a <b>K<sub>i</sub></b> of 120 nM. ML349 is also an inhibitor of <b>LYPLA2</b> with an <b>IC<sub>50</sub></b> of 144 nM.</p>  <p><b>Purity:</b> 99.11%</p> <p><b>Clinical Data:</b> No Development Reported</p> <p><b>Size:</b> 10 mM × 1 mL, 5 mg</p>	<p>N-(p-aminocinnamoyl) Anthranilic Acid (ACA) is a broad spectrum <b>Phospholipase A<sub>2</sub> (PLA<sub>2</sub>)</b> inhibitor and <b>TRP channel</b> blocker.</p>  <p><b>Purity:</b> 98.81%</p> <p><b>Clinical Data:</b> Phase 2</p> <p><b>Size:</b> 10 mM × 1 mL, 25 mg, 50 mg, 100 mg</p>
<p><b>Omeprazole</b> (H 16868)</p> <p style="text-align: right;">Cat. No.: HY-B0113</p>	<p><b>Omeprazole sodium</b> (H 16868 sodium)</p> <p style="text-align: right;">Cat. No.: HY-B0113A</p>
<p>Omeprazole (H 16868), a <b>proton pump</b> inhibitor (PPI), is available for treatment of acid-related gastrointestinal disorders. Omeprazole shows competitive inhibition of <b>CYP2C19</b> activity with a <b>K<sub>i</sub></b> of 2 to 6 μM.</p>  <p><b>Purity:</b> &gt;98.0%</p> <p><b>Clinical Data:</b> Launched</p> <p><b>Size:</b> 10 mM × 1 mL, 100 mg, 500 mg</p>	<p>Omeprazole sodium (H 16868 sodium), a <b>proton pump</b> inhibitor (PPI), is available for treatment of acid-related gastrointestinal disorders. Omeprazole sodium shows competitive inhibition of <b>CYP2C19</b> activity with a <b>K<sub>i</sub></b> of 2 to 6 μM.</p>  <p><b>Purity:</b> 98.03%</p> <p><b>Clinical Data:</b> Launched</p> <p><b>Size:</b> 10 mM × 1 mL, 100 mg, 500 mg</p>
<p><b>Rhamnetin</b></p> <p style="text-align: right;">Cat. No.: HY-N7036</p>	<p><b>RHC 80267</b> (U-57908)</p> <p style="text-align: right;">Cat. No.: HY-107416</p>
<p>Rhamnetin is a quercetin derivative found in <i>Coriandrum sativum</i>, inhibits secretory <b>phospholipase A2</b>, with antioxidant and anti-inflammatory activity.</p>  <p><b>Purity:</b> &gt;98%</p> <p><b>Clinical Data:</b> No Development Reported</p> <p><b>Size:</b> 1 mg, 5 mg</p>	<p>RHC 80267 (U-57908) is a potent and selective inhibitor of <b>diacylglycerol lipase (DAGL)</b> (with <b>IC<sub>50</sub></b> of 4 μM in canine platelets). RHC-80267 inhibits <b>cholinesterase</b> activity with an <b>IC<sub>50</sub></b> of 4 μM, thereby enhancing the relaxation evoked by <b>acetylcholine</b>.</p>  <p><b>Purity:</b> 99.51%</p> <p><b>Clinical Data:</b> No Development Reported</p> <p><b>Size:</b> 10 mg, 25 mg, 50 mg, 100 mg</p>

<p><b>SPK-601</b> (LMV-601)</p>	<p><b>ST271</b></p>
<p>SPK-601 (LMV-601) is an inhibitor of the <b>phosphatidylcholine-specific phospholipase C (PC-PLC)</b>. SPK-601 also can be used as an antimicrobial agent.</p> <p><b>Purity:</b> 98.19% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM × 1 mL, 10 mg, 50 mg</p>	<p>ST271 is a potent inhibitor of protein tyrosine kinase (PTK), inhibits <b>phospholipase D</b> activation stimulated by fMet-Leu-Phe and PAF, with <math>IC_{50}</math>s of 6.7 and 9 <math>\mu</math>M, respectively.</p> <p><b>Purity:</b> 98.90% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p><b>Tanshinone I</b> (Tanshinone A)</p>	<p><b>trans-Benzylideneacetone</b> (trans-Benzalacetone)</p>
<p>Tanshinone I is an inhibitor of type IIA human recombinant sPLA<sub>2</sub> (<math>IC_{50}</math>=11 <math>\mu</math>M) and rabbit recombinant cPLA<sub>2</sub> (<math>IC_{50}</math>=82 <math>\mu</math>M).</p> <p><b>Purity:</b> &gt;98.0% <b>Clinical Data:</b> Launched <b>Size:</b> 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>	<p>trans-Benzylideneacetone (trans-Benzalacetone), a metabolite of gram-negative entomopathogenic bacterium <i>Xenorhabdus nematophila</i>, is an enzyme inhibitor against <b>phospholipase A2 (PLA2)</b>. trans-Benzylideneacetone is an immunosuppressant.</p> <p><b>Purity:</b> &gt;98% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 500 mg</p>
<p><b>Tris(2,4-di-tert-butylphenyl)phosphate</b></p>	<p><b>U-73122</b></p>
<p>Tris(2,4-di-tert-butylphenyl)phosphate is an active compound from the leaves of <i>Vitex negundo</i> L. shows anti-inflammatory activity with evidence of inhibition for <b>secretory Phospholipase A<sub>2</sub> (sPLA<sub>2</sub>)</b> through molecular docking.</p> <p><b>Purity:</b> &gt;98.0% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 100 mg</p>	<p>U-73122 is a <b>phospholipase C (PLC)</b> and <b>5-LO (5-lipoxygenase)</b> inhibitor with an <math>IC_{50}</math> of 1-2.1 <math>\mu</math>M for PLC.</p> <p><b>Purity:</b> 98.17% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p><b>U-73343</b></p>	<p><b>Varespladib</b> (LY315920)</p>
<p>U-73343, an inhibitor of <b>PLC (putative phospholipase C)</b>-dependent processes, is an analog of U-73122 and can be used as a negative control.</p> <p><b>Purity:</b> 99.31% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 5 mg, 10 mg, 50 mg</p>	<p>Varespladib (LY315920) is a potent and selective <b>group IIA, secretory phospholipase A<sub>2</sub> (sPLA<sub>2</sub>)</b> inhibitor with an <math>IC_{50}</math> of 9 nM.</p> <p><b>Purity:</b> 98.68% <b>Clinical Data:</b> Phase 3 <b>Size:</b> 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p><b>Varespladib methyl</b> (A-002; LY333013)</p>	<p><b>Varespladib sodium</b> (LY315920 sodium)</p>
<p>Varespladib methyl (A-002; LY333013) is a selective inhibitor of group II secretory phospholipase A<sub>2</sub> (PLA<sub>2</sub>).</p> <p><b>Purity:</b> 99.45% <b>Clinical Data:</b> Phase 3 <b>Size:</b> 1 mg</p>	<p>Varespladib sodium (LY315920 sodium) is a potent and selective <b>group IIA, secretory phospholipase A<sub>2</sub> (sPLA<sub>2</sub>)</b> inhibitor with an <math>IC_{50}</math> of 9 nM.</p> <p><b>Purity:</b> &gt;98% <b>Clinical Data:</b> No Development Reported <b>Size:</b> 1 mg, 5 mg</p>