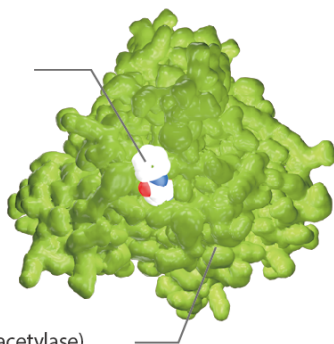


Toll-like Receptor (TLR)





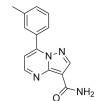
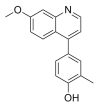


HDAC Inhibitor:
Vorinostat (SAHA)

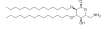
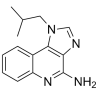
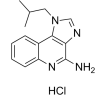

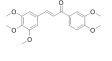

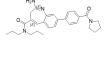

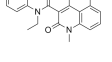


HDAC (Histone deacetylase)

sensing endogenous danger signals. TLRs are evolutionarily conserved receptors are homologues of the *Drosophila* Toll protein, discovered to be important for defense against microbial infection. TLRs recognize highly conserved structural motifs known as pathogen-associated microbial patterns (PAMPs), which are exclusively expressed by microbial pathogens.

Toll-like Receptor (TLR) Inhibitors & Modulators

<p>AN-3485</p> <p style="text-align: right;">Cat. No.: HY-18325</p> <p>Bioactivity: AN-3485 is a benzoxaborole analog, Toll-Like Receptor (TLR) inhibitor with IC₅₀ values ranging from 18 to 580 nM.</p> <p>Purity: >98%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 250 mg, 500 mg</p> 	<p>Atractylenolide I</p> <p style="text-align: right;">Cat. No.: HY-N0201</p> <p>Bioactivity: Atractylenolide I is a sesquiterpene derived from the rhizome of <i>Atractylodes macrocephala</i>, possesses diverse bioactivities, such as neuroprotective, anti-allergic, anti-inflammatory and anticancer properties. Atractylenolide I reduces protein levels of phosphorylated JAK2 and STAT3 in A375 cells, and...</p> <p>Purity: 99.08%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg</p> 
<p>C29</p> <p style="text-align: right;">Cat. No.: HY-100461</p> <p>Bioactivity: C29 is a Toll-like receptor 2 (TLR2) inhibitor.</p> <p>Purity: 98.0%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg</p> 	<p>Chloroquine diphosphate</p> <p style="text-align: right;">Cat. No.: HY-17589</p> <p>Bioactivity: Chloroquine (diphosphate) is an antimalarial and anti-inflammatory drug widely used to treat malaria and rheumatoid arthritis. Chloroquine is an inhibitor of autophagy and toll-like receptors (TLRs).</p> <p>Purity: 99.94%</p> <p>Clinical Data: Launched</p> <p>Size: 10mM x 1mL in Water, 100 mg</p> 
<p>CU CPT 22</p> <p style="text-align: right;">Cat. No.: HY-108471</p> <p>Bioactivity: CU CPT 22 is a toll-like receptor 1 and 2 (TLR1/2) inhibitor with an IC₅₀ of 0.58 μM.</p> <p>Purity: 99.0%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg</p> 	<p>CU-CPT-8m (TLR8-specific antagonist)</p> <p style="text-align: right;">Cat. No.: HY-112050</p> <p>Bioactivity: CU-CPT-8m is a specific TLR8 antagonist, with an IC₅₀ of 67 nM.</p> <p>Purity: 99.93%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg</p> 
<p>CU-CPT-9a</p> <p style="text-align: right;">Cat. No.: HY-112667</p> <p>Bioactivity: CU-CPT-9a is a specific TLR8 antagonist, with an IC₅₀ of 0.5 nM.</p> <p>Purity: 98.62%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg</p> 	<p>CU-CPT-9b (TLR8-specific antagonist 1)</p> <p style="text-align: right;">Cat. No.: HY-112051</p> <p>Bioactivity: CU-CPT-9b is a specific TLR8 antagonist, with an IC₅₀ of 0.7 nM.</p> <p>Purity: 99.05%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg</p> 
<p>CU-CPT17e</p> <p style="text-align: right;">Cat. No.: HY-101929</p> <p>Bioactivity: CU-CPT17e is a multi- Toll-like receptor (TLR) agonist that activates TLR3, TLR8, and TLR9.</p> <p>Purity: 98.02%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 	<p>Gardiquimod trifluoroacetate</p> <p style="text-align: right;">Cat. No.: HY-103697A</p> <p>Bioactivity: Gardiquimod trifluoroacetate is a specific TLR7 agonist which can also inhibit HIV-1 reverse transcriptase.</p> <p>Purity: 99.28%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 

<p>Hydroxychloroquine sulfate (HCQ sulfate) Cat. No.: HY-B1370</p> <p>Bioactivity: Hydroxychloroquine sulfate is a synthetic antimalarial drug which can also inhibit Toll-like receptor 7/9 (TLR7/9) signaling.</p> <p>Purity: 99.99% Clinical Data: Launched Size: 10mM x 1mL in Water, 50 mg</p> 	<p>IAXO-102 Cat. No.: HY-125171</p> <p>Bioactivity: IAXO-102 is a TLR4 antagonist, inhibits MAPK and p65 NF-κB phosphorylation involved in down regulation of the expression of TLR4 and TLR4 dependent proinflammatory protein. IAXO-102 prevents experimental abdominal aortic aneurysm development [1]</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 250 mg, 500 mg</p> 
<p>Imiquimod (R 837) Cat. No.: HY-B0180</p> <p>Bioactivity: 1-NM-PP1 is a cell permeable and mutant selective CDK inhibitor.</p> <p>Purity: 99.37% Clinical Data: Launched Size: 10mM x 1mL in DMSO, 100 mg, 200 mg, 500 mg</p> 	<p>Imiquimod hydrochloride (R 837 hydrochloride) Cat. No.: HY-B0180A</p> <p>Bioactivity: Imiquimod hydrochloride is an immune response modifier that acts as a toll-like receptor 7 agonist.</p> <p>Purity: >98% Clinical Data: Launched Size: 100 mg, 200 mg, 500 mg</p> 
<p>Imiquimod maleate (R 837 maleate) Cat. No.: HY-B0180B</p> <p>Bioactivity: Imiquimod maleate is an immune response modifier that acts as a toll-like receptor 7 agonist.</p> <p>Purity: >98% Clinical Data: Launched Size: 100 mg, 200 mg, 500 mg</p> 	<p>MD2-IN-1 Cat. No.: HY-103483</p> <p>Bioactivity: MD2-IN-1 is an inhibitor of Myeloid differentiation protein 2 (MD2) with a KD of 189 μM for the recombinant human MD2 (rhMD2).</p> <p>Purity: 99.85% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg</p> 
<p>MMG-11 Cat. No.: HY-112146</p> <p>Bioactivity: MMG-11 is a potent and selective human TLR2 antagonist. MMG-11 inhibits both TLR2/1 and TLR2/6 signaling with an IC₅₀ of 1.7 μM for Pam₃CSK₄-induced hTLR2/1 and 5.7 μM for Pam₂CSK₄-induced hTLR2/6 responses [1].</p> <p>Purity: >98% Clinical Data: No Development Reported Size:</p> 	<p>Motolimod (VTX-2337; VTX-378) Cat. No.: HY-13773</p> <p>Bioactivity: Motolimod is a selective Toll-like receptor 8 (TLR8) agonist, with an EC₅₀ of approximately 100 nM.</p> <p>Purity: 98.83% Clinical Data: Phase 2 Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg</p> 
<p>Neoseptin 3 Cat. No.: HY-U00435</p> <p>Bioactivity: Neoseptin 3 is a Toll-like receptor 4/myeloid differentiation factor 2 (mTLR4/MD-2) agonist with an EC₅₀ of 18.5 μM.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg</p> 	<p>Paquinimod (ABR 25757) Cat. No.: HY-100442</p> <p>Bioactivity: Paquinimod is a S100A9 inhibitor, which prevents S100A9 binding to TLR-4.</p> <p>Purity: 98.38% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg</p> 

<p>PF-4878691 (3M-852A) Cat. No.: HY-100176</p> <p>Bioactivity: PF-4878691 is a potent and selective Toll-like receptor 7 (TLR7) agonist.</p> <p>Purity: 99.89% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg</p> 	<p>Procyanidin B1 Cat. No.: HY-N0795</p> <p>Bioactivity: Procyanidin B1 is a polyphenolic flavonoid isolated from commonly eaten fruits, binds to TLR4/MD-2 complex, and has anti-inflammatory activity.</p> <p>Purity: 99.92% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg</p> 
<p>Resatorvid (TAK-242; CLI-095) Cat. No.: HY-11109</p> <p>Bioactivity: Resatorvid (TAK-242) is a potent TLR4 signaling inhibitor which selectively inhibits the TLR4-mediated production of cytokines and nitric oxide.</p> <p>Purity: 99.95% Clinical Data: Phase 3 Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg</p> 	<p>Resiquimod (R848; S28463) Cat. No.: HY-13740</p> <p>Bioactivity: Resiquimod is a Toll-like receptor 7 and 8 (TLR7/TLR8) agonist that induces the upregulation of cytokines such as TNF-α, IL-6 and IFN-α.</p> <p>Purity: 99.82% Clinical Data: Phase 2 Size: 10mM x 1mL in DMSO, 10 mg, 25 mg, 50 mg, 100 mg</p> 
<p>Telratolimod (MEDI 9197; 3M 052) Cat. No.: HY-109104</p> <p>Bioactivity: Telratolimod is a toll like receptors 7/8 (TLR7/8) agonist, with antitumor activity.</p> <p>Purity: 98.0% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 	<p>TLR 7 agonist 1 Cat. No.: HY-111358</p> <p>Bioactivity: TLR 7 agonist 1 is a potent, selective and oral TLR7 agonist with an IC₅₀ of 90 nM.</p> <p>Purity: >98% Clinical Data: No Development Reported Size:</p> 
<p>TLR7-agonist-1 Cat. No.: HY-103039</p> <p>Bioactivity: TLR7-agonist-1 is a potent and selective Toll-like Receptor 7 (TLR7) agonist with a LEC of 0.4 μM.</p> <p>Purity: 98.82% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 	<p>TLR7/8 agonist 1 dihydrochloride Cat. No.: HY-103698A</p> <p>Bioactivity: TLR7/8 agonist 1 dihydrochloride is a toll-like receptor (TLR7)/ TLR8 dual-agonistic imidazoquinoline.</p> <p>Purity: 98.02% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 
<p>Toll-like receptor modulator Cat. No.: HY-10018</p> <p>Bioactivity: Toll-like receptor modulator is a modulator of TLR7/8, which modulates immune function.</p> <p>Purity: 99.40% Clinical Data: No Development Reported Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg</p> 	<p>Vesatolimod (GS-9620) Cat. No.: HY-15601</p> <p>Bioactivity: Vesatolimod (GS-9620) is a potent, selective and orally active agonist of Toll-Like Receptor (TLR7) with an EC₅₀ of 291 nM.</p> <p>Purity: 98.78% Clinical Data: Phase 2 Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg</p> 