



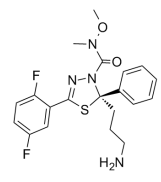
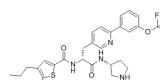
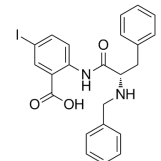
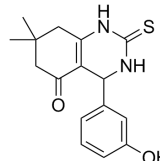
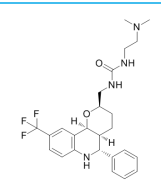
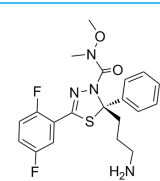
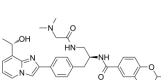
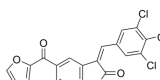
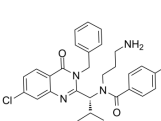
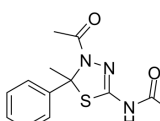
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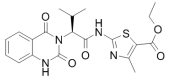
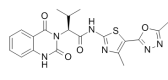
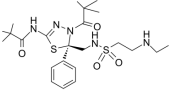
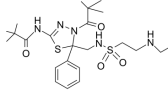
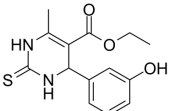
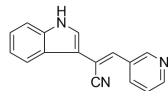
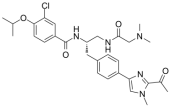
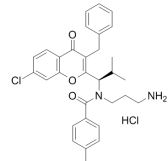
Inhibitors, Agonists, Screening Libraries

Kinesin

Kinesin is a protein belonging to a class of motor proteins found in eukaryotic cells. Kinesins move along microtubule filaments, and are powered by the hydrolysis of ATP (thus kinesins are ATPases). The active movement of kinesins supports several cellular functions including mitosis, meiosis and transport of cellular cargo. Most kinesins walk towards the plus end of a microtubule, entails transporting cargo from the centre of the cell towards the periphery. Kinesins were discovered as microtubule (MT)-based anterograde intracellular transport motors. The founding member of this superfamily, the genomes of mammals encode more than 40 kinesin proteins, organized into at least 14 families named kinesin-1 through kinesin-14.

Kinesin Inhibitors

<p>(R)-Filanesib (R)-ARRY-520</p> <p>Cat. No.: HY-15187A</p> <p>(R)-Filanesib ((R)-ARRY-520) is the R-enantiomer of ARRY-520. (R)-Filanesib ((R)-ARRY-520) is a synthetic kinesin spindle protein (KSP) inhibitor with IC_{50} of 6 nM.</p> <p>Purity: 98.86% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p> 	<p>AZ82</p> <p>Cat. No.: HY-12241</p> <p>AZ82 is a selective kinesin-like protein KIFC1 (HSET/KIFC1) inhibitor, with a K_i of 43 nM and an IC_{50} of 300 nM for KIFC1.</p> <p>Purity: 99.08% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg</p> 
<p>CW-069</p> <p>Cat. No.: HY-15857</p> <p>CW-069 is an allosteric inhibitor of microtubule motor protein HSET with an IC_{50} of 75 μM.</p> <p>Purity: 99.75% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p> 	<p>Dimethylenastron</p> <p>Cat. No.: HY-19944</p> <p>Dimethylenastron is a potent kinesin Eg5 inhibitor, with an IC_{50} of 200 nM.</p> <p>Purity: 98.24% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p> 
<p>EMD534085</p> <p>Cat. No.: HY-15000</p> <p>EMD534085 is a potent and selective inhibitor of the mitotic kinesin-5 with an IC_{50} of 8 nM.</p> <p>Purity: 99.03% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg</p> 	<p>Filanesib (ARRY-520)</p> <p>Cat. No.: HY-15187</p> <p>Filanesib (ARRY-520) is a selective kinesin spindle protein (KSP) inhibitor, with an IC_{50} of 6 nM for human KSP. Filanesib induces cell death by apoptosis in vitro. Filanesib has potent anti-proliferative activity.</p> <p>Purity: 99.73% Clinical Data: Phase 2 Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p> 
<p>GSK-923295</p> <p>Cat. No.: HY-10299</p> <p>GSK-923295 is a special, allosteric inhibitor of centromere-associated protein-E (CENP-E) kinesin motor ATPase activity, with K_i of 3.2 ± 0.2 nM and 1.6 ± 0.1 nM for human and canine, respectively.</p> <p>Purity: 99.56% Clinical Data: Phase 1 Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p> 	<p>GW406108X (GW108X)</p> <p>Cat. No.: HY-115570</p> <p>GW406108X is a specific Kif15 (Kinesin-12) inhibitor with an IC_{50} of 0.82 μM in ATPase assays. GW406108X, a potent autophagy inhibitor, shows ATP competitive inhibition against ULK1 with a pIC_{50} of 6.37 (427 nM).</p> <p>Purity: >98.0% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 
<p>Ispinesib (SB-715992)</p> <p>Cat. No.: HY-50759</p> <p>Ispinesib is a specific inhibitor of kinesin spindle protein (KSP), with a $K_{i,app}$ of 1.7 nM.</p> <p>Purity: 99.83% Clinical Data: Phase 2 Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p> 	<p>K858 (Racemic)</p> <p>Cat. No.: HY-19966</p> <p>K858 Racemic is an ATP-uncompetitive inhibitor of kinesin Eg5 with an IC_{50} of 1.3 μM.</p> <p>Purity: 99.93% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 

<p>Kif15-IN-1</p> <p style="text-align: right;">Cat. No.: HY-15948</p>	<p>Kif15-IN-2</p> <p style="text-align: right;">Cat. No.: HY-15949</p>
<p>Kif15-IN-1 is an inhibitor of the mitotic Kinesin family member 15 (Kif15), and is used for the research of cellular proliferative diseases.</p>  <p>Purity: 99.53% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>Kif15-IN-2 is an inhibitor of the mitotic kinesin Kif15, and is used for the research of cellular proliferative diseases.</p>  <p>Purity: 98.64% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p>Litronesib (LY2523355)</p> <p style="text-align: right;">Cat. No.: HY-14846</p>	<p>Litronesib Racemate (LY2523355 Racemate)</p> <p style="text-align: right;">Cat. No.: HY-14846A</p>
<p>Litronesib (LY2523355) is a selective mitosis-specific kinesin Eg5 inhibitor, with antitumor activity.</p>  <p>Purity: 99.59% Clinical Data: Phase 2 Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>Litronesib Racemate (LY2523355 Racemate) is the racemate of litronesib. Litronesib is a selective, allosteric inhibitor of kinesin Eg5.</p>  <p>Purity: 99.20% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 2 mg, 5 mg</p>
<p>Monastrol ((±)-Monastrol)</p> <p style="text-align: right;">Cat. No.: HY-101071A</p>	<p>Paprotain</p> <p style="text-align: right;">Cat. No.: HY-101298</p>
<p>Monastrol is a potent and cell-permeable inhibitor of the mitotic kinesin Eg5 with an IC_{50} value of 14 μM.</p>  <p>Purity: 99.95% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg</p>	<p>Paprotain is a cell-permeable inhibitor of the kinesin MKLP-2, inhibits the ATPase activity of MKLP-2 with an IC_{50} of 1.35 μM and a K_i of 3.36 μM and shows a moderate inhibition activity on DYRK1A with an IC_{50} of 5.5 μM.</p>  <p>Purity: 99.54% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p>PF-2771</p> <p style="text-align: right;">Cat. No.: HY-19530</p>	<p>SB-743921</p> <p style="text-align: right;">Cat. No.: HY-12069</p>
<p>PF-2771 is a potent and selective centromere protein E (CENP-E) inhibitor, inhibiting CENP-E motor activity with an IC_{50} of 16.1 nM; PF-2771 is used as an anticancer agent.</p>  <p>Purity: 99.56% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>SB-743921 is a potent inhibitor of the mitotic kinesin KSP (Eg5), with a K_i of 0.1 nM.</p>  <p>Purity: 98.11% Clinical Data: Phase 2 Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>