



www.MedChemExpress.com

Inhibitors, Agonists, Screening Libraries

NEDD8-activating Enzyme

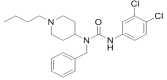
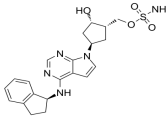
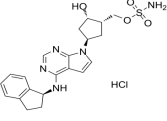
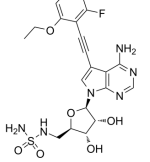
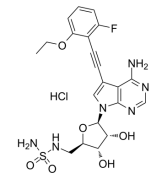
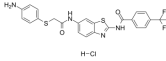
NAE

NEDD8-activating Enzyme (NAE) is an essential component of the NEDD8 conjugation pathway that controls the activity of the cullin-RING subtype of ubiquitin ligases, thereby regulating the turnover of a subset of proteins upstream of the proteasome. Substrates of cullin-RING ligases have important roles in cellular processes associated with cancer cell growth and survival pathways.

NEDD8 (neural precursor cell expressed developmentally downregulated protein 8) is the ubiquitin-like protein most homologous to ubiquitin. The covalent binding of NEDD8 to substrate proteins is called "neddylation", and includes the following steps: mature NEDD8 is activated by NEDD8-activating enzyme E1 (NAE), transferred by NEDD8-conjugating enzyme E2, and conjugated to the substrate protein by a NEDD8-E3 ligase.

NAE is a critical regulator of the neddylation pathway. Inhibition of NAE can inhibit the activity of the cullin-RING ligases (CRLs) and result in accumulation of CRL substrate proteins.

NEDD8-activating Enzyme Inhibitors

<p>NAcM-OPT</p> <p>Cat. No.: HY-111505</p>	<p>Pevedonistat (MLN4924)</p> <p>Cat. No.: HY-70062</p>
<p>NAcM-OPT is an orally bioavailable cullin neddylation 1 (DCN1) inhibitor, which potently inhibits the DCN1-UBE2M interaction.</p>  <p>Purity: 98.60% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>Pevedonistat (MLN4924) is a potent and selective NEDD8-activating enzyme (NAE) inhibitor with an IC_{50} of 4.7 nM.</p>  <p>Purity: 99.83% Clinical Data: Phase 3 Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg</p>
<p>Pevedonistat hydrochloride (MLN4924 hydrochloride)</p> <p>Cat. No.: HY-10484</p>	<p>TAS4464</p> <p>Cat. No.: HY-128586</p>
<p>Pevedonistat hydrochloride (MLN4924 hydrochloride) is a potent and selective NEDD8-activating enzyme (NAE) inhibitor, with an IC_{50} of 4.7 nM.</p>  <p>Purity: >98.0% Clinical Data: Phase 3 Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg</p>	<p>TAS4464 is a highly potent and selective inhibitor of NEDD8 activating enzyme (NAE), with an IC_{50} of 0.955 nM.</p>  <p>Purity: 98.21% Clinical Data: Phase 2 Size: 10 mM × 1 mL, 5 mg, 10 mg</p>
<p>TAS4464 hydrochloride</p> <p>Cat. No.: HY-128586A</p>	<p>ZM223 hydrochloride</p> <p>Cat. No.: HY-101790A</p>
<p>TAS4464 (hydrochloride) is a highly potent and selective inhibitor of NEDD8 activating enzyme (NAE), with an IC_{50} of 0.955 nM.</p>  <p>Purity: 98.88% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg</p>	<p>ZM223 hydrochloride is an orally active, potent non-covalent NEDD8 activating enzyme (NAE) inhibitor with excellent anticancer activity.</p>  <p>Purity: 98.93% Clinical Data: Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>