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Inhibitors, Screening Libraries, Proteins

# NEDD8-activating Enzyme

## NAE

NEDD8-activating enzyme (NAE) is upstream of the 20S proteasome in the ubiquitin/proteasome pathway and catalyzes the first step in the neddylation pathway. 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.

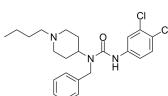
The ubiquitin-like protein NEDD8 is a critical signaling molecule implicated in the functional maintenance and homeostasis of cells. Dysregulation of this process is involved in a variety of human diseases, including cancer. Therefore, NEDD8-activating enzyme E1 (NAE), the only activation enzyme of the neddylation pathway, has been an emergent anticancer target.

## NEDD8-activating Enzyme Inhibitors

### NAcM-OPT

Cat. No.: HY-111505

NAcM-OPT is an orally bioavailable cullin neddylation 1 (DCN1) inhibitor, which potently inhibits the DCN1-UBE2M interaction.



Purity: 99.81%

Clinical Data: No Development Reported

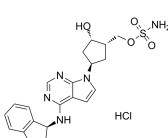
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

### Pevonedistat hydrochloride

(MLN4924 hydrochloride)

Cat. No.: HY-10484

Pevonedistat hydrochloride (MLN4924 hydrochloride) is a potent and selective NEDD8-activating enzyme (NAE) inhibitor, with an  $IC_{50}$  of 4.7 nM.



Purity: 98.04%

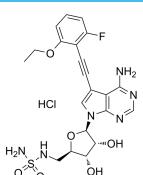
Clinical Data: Phase 3

Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg

### TAS4464 hydrochloride

Cat. No.: HY-128586A

TAS4464 (hydrochloride) is a highly potent and selective inhibitor of NEDD8 activating enzyme (NAE), with an  $IC_{50}$  of 0.955 nM.



Purity: 98.88%

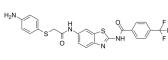
Clinical Data: No Development Reported

Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

### ZM223 hydrochloride

Cat. No.: HY-101790A

ZM223 hydrochloride is an orally active, potent non-covalent NEDD8 activating enzyme (NAE) inhibitor with excellent anticancer activity.



Purity: 98.93%

Clinical Data: No Development Reported

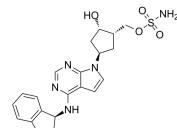
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

### Pevonedistat

(MLN4924)

Cat. No.: HY-70062

Pevonedistat (MLN4924) is a potent and selective NEDD8-activating enzyme (NAE) inhibitor with an  $IC_{50}$  of 4.7 nM.



Purity: 99.98%

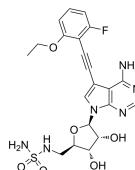
Clinical Data: Phase 3

Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg

### TAS4464

Cat. No.: HY-128586

TAS4464 is a highly potent and selective inhibitor of NEDD8 activating enzyme (NAE), with an  $IC_{50}$  of 0.955 nM.



Purity: 98.55%

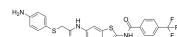
Clinical Data: Phase 2

Size: 10 mM × 1 mL, 5 mg, 10 mg

### ZM223

Cat. No.: HY-101790

ZM223 is a potent non-covalent NEDD8 activating enzyme (NAE) inhibitor, orally active.



Purity: >98%

Clinical Data: No Development Reported

Size: 1 mg, 5 mg