

# Pevonedistat

## Catalog No: tcsc0348



### Available Sizes

**Size:** 1mg

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg

**Size:** 200mg



### Specifications

**CAS No:**

905579-51-3

**Formula:**

$C_{21}H_{25}N_5O_4S$

**Pathway:**

Metabolic Enzyme/Protease

**Target:**

NEDD8-activating Enzyme

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 50$  mg/mL (112.73 mM)

**Alternative Names:**

MLN4924

### Observed Molecular Weight:

443.52

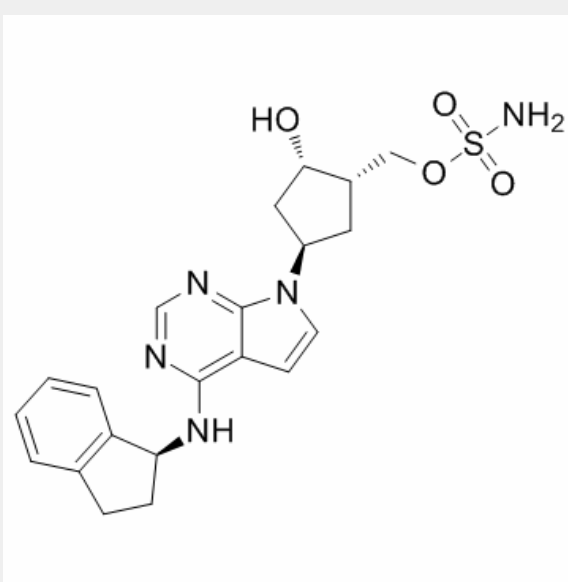
## Product Description

Pevonedistat (MLN4924) is a potent and selective **NEDD8-activating enzyme (NAE)** inhibitor with an **IC<sub>50</sub>** of 4.7 nM.

IC50 & Target: IC50: 4.7 nM (NAE)<sup>[1]</sup>

**In Vitro:** Pevonedistat (MLN4924) is a potent inhibitor of NAE, and is selective relative to the closely related enzymes UAE, SAE, UBA6 and ATG7 (IC<sub>50</sub>=1.5, 8.2, 1.8 and >10 μM, respectively) when evaluated in purified enzyme assays that monitor the formation of E2-UBL thioester reaction products. Pevonedistat (MLN4924) selectively inhibits NAE activity compared to the closely related ubiquitin-activating enzyme (UAE, also known as UBA1) and SUMO-activating enzyme (SAE; a heterodimer of SAE1 and UBA2 subunits), in purified enzyme and cellular assays. MLN4924 exhibits potent cytotoxic activity against a variety of human tumour-derived cell lines<sup>[1]</sup>.

**In Vivo:** Pevonedistat (MLN4924) (sc, 10 mg/kg, 30 mg/kg, or 60 mg/kg) inhibits the NEDD8 pathway resulting in DNA damage in Mice bearing HCT-116 xenografts<sup>[1]</sup>. Pevonedistat (sc, 120 mg/kg) and TNF-α (10 μg/kg) synergistically cause liver damage in SD rats<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!