Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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 : ≥ 50 mg/mL (112.73 mM)

Alternative Names:
MLN4924

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Observed Molecular Weight:
443.52

Product Description

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

IC50 & Target: IC50: 4.7 nM (NAE)[1]

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_{50}=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[1].

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[1].Pevonedistat (sc, 120 mg/kg) and TNF-α (10 μg/kg) synergistically cause liver damage in SD rats [2].