1 mg



MLN4924 (Pevonedistat)



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Background MLN4924 (Pevonedistat) is a potent and selective inhibitor of NEDD8-activating enzyme (NAE) (1). The

NAE is part of the NEDD8 conjugation pathway that involves the ubiquitin-like NEDD8 protein and cullin-RING ligases (CRL). The NAE is responsible for the covalent attachment of NEDD8 to cullin proteins, termed neddylation, resulting in a conformational change within the CRL, analogous to ubiquitination. This is a reversible, multi-step process responsible for cell cycle progression and survival pathways in cancer cells (2). The inhibition of NAE by MLN4924 (Pevonedistat) induces apoptosis in human tumor cells and reduces human tumor xenograft growth in mice ($IC_{50} = 4.7 \text{ nM}$) (1-3).

Molecular Formula $C_{21}H_{25}N_5O_4S$ Molecular Weight 443.2 g/mol

Purity >98%

CAS 905579-51-3

Solubility Soluble in DMSO at 10 mg/ml.

Storage Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in

solution, store at -20°C and use within 3 months to prevent loss of potency. Aliquot to avoid multiple

freeze/thaw cycles.

Directions for Use MLN4924 (Pevonedistat) is supplied as a lyophilized powder. For a 5 mM stock, reconstitute 1 mg of

powder in 451.2 μl of DMSO. Working concentrations and length of treatment can vary depending on

the desired effect.

Background References 1. Soucy, T.A. et al. (2009) Nature 458, 732-6.

2. Soucy, T.A. et al. (2010) Genes Cancer 1, 708-16.

3. Wang, M. et al. (2011) Expert Opin Ther Targets 15, 253-64.

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