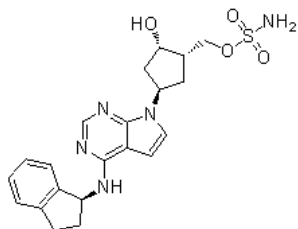


MATERIAL DATA SHEET**Nedd8 E1 Activating Enzyme Inhibitor (NAE inhibitor), Synthetic
Cat. # I-502**

NAE inhibitor contains the active component of MLN4924, a cell-permeable, small molecule inhibitor of Nedd8 activating enzyme (NAE). By inhibiting the Neddylation pathway this molecule disrupts cullin-RING ligase activity, leading to inhibition of proliferation or apoptotic death of various human tumor cells through the deregulation of S-phase DNA synthesis. Mutations in UBA3, a gene encoding one of the subunits of Nedd8 activating enzyme, have been reported to cause resistance to MLN4924 in some tumor cell lines.

Product Information**Quantity:** 1 mg**FW:** 444**Structure:****Physical/Chemical Characteristics****Solubility:** Provided as a 20 mM stock solution in DMSO**Purity:** > 99% by HPLC**Activity:** Depending on cell line, typical IC₅₀ values in 72 hour assay are ≤ 1 μM.**Use & Storage****Storage:** Store lyophilized material at -20°C. Store reconstituted material at -20°C for up to 3 months. Avoid multiple freeze/thaw cycles.**Literature****References:** Lin, J.J., *et al.* (2010) *Cancer Res.* **70**: 10310-10320
Soucy, T.A., *et al.* (2009) *Nature* **458**: 732-737

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