

Tpl2 Kinase Inhibitor (hydrochloride)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Tpl2 kinase inhibitor is an inhibitor of tumor progression locus 2 (Tpl2; IC ₅₀ = 0.05 μM).1It is selective for Tpl2 over MEK, p38 MAPK, Src, MK2, and PKC (IC ₅₀ s = >40, 180, >400, 110, and >400 μM, respectively). Tpl2 kinase inhibitor inhibits LPS-induced TNF-α production in isolated human monocytes and whole blood (IC ₅₀ s = 0.7 and 8.5 μM, respectively). It enhances differentiation induced by calcitriol in HL-60 and U937 leukemia cells when used at a concentration of 5 μM.2Tpl2 kinase inhibitor (5 μM) inhibits the proliferation of KG-1a leukemia cells.3
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Solubility Information

Solubility	DMF: Slightly soluble DMSO: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Garvin, L.K., Green, N., Hu, Y., et al. Inhibition of Tpl2 kinase and TNF-α production with 1,7-naphthyridine-3-carbonitriles: Synthesis and structure-activity relationships Bioor. Med. Chem. Lett. 15(23)5288-5292(2005)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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