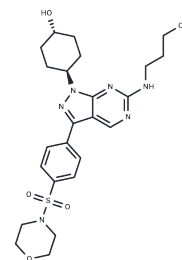


UNC 1025

Chemical Properties

CAS No. : 1350549-36-8
 Formula: C₂₅H₃₄N₆O₄S
 Molecular Weight: 514.64
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	UNC1062 is a highly selective tyrosine kinase inhibitor that specifically targets MERTK. This compound effectively suppresses MERTK-mediated downstream signaling, induces apoptosis in cell cultures, reduces colony formation in soft agar, and inhibits invasion of melanoma cells. Notably, UNC1062 demonstrates potent inhibition of MERTK kinase activity, with an IC ₅₀ of 1.1 nM and a Morrison Ki of 0.33 nM. It also displays specificity within the TAM family, exhibiting IC ₅₀ values of 60 nM for TYRO3 and 85 nM for AXL [1].
Targets(IC ₅₀)	Others, TAM Receptor
In vitro	UNC1062 potently inhibits MERTK kinase activity in vitro (MERTK IC ₅₀ = 1.1 nM, Morrison Ki = 0.33 nM) and exhibits specificity within the TAM family (TYRO3 IC ₅₀ = 60 nM, AXL IC ₅₀ = 85 nM). Treatment of HMCB and G361 cells with increasing concentrations of UNC1062 resulted in a potent dose-dependent reduction in MERTK phosphorylation[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (106.87 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9431 mL	9.7155 mL	19.4311 mL
5 mM	0.3886 mL	1.9431 mL	3.8862 mL
10 mM	0.1943 mL	0.9716 mL	1.9431 mL
50 mM	0.0389 mL	0.1943 mL	0.3886 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Schlegel J, et al. MERTK receptor tyrosine kinase is a therapeutic target in melanoma. J Clin Invest. 2013;123(5): 2257-2267.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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