

Data Sheet

 Product Name:
 UNC2250

 Cat. No.:
 CS-2318

 CAS No.:
 1493694-70-4

 Molecular Formula:
 C24H36N6O2

Molecular Weight: 440.58

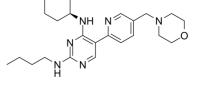
Target: TAM Receptor

Pathway: Protein Tyrosine Kinase/RTK

DMSO: 20 mg/mL (45.39 mM; ultrasonic and warming and heat to 60°C): 0.1 M HCL: 12.5 mg/mL (28.37 mM; ultrasonic and

Solubility: to 60°C); 0.1 M HCL : 12.5 mg/mL (28.37 mM; ultrasonic and

adjust pH to 3 with HCl)



BIOLOGICAL ACTIVITY:

UNC2250 is a potent and selective **Mer** inhibitor with an **IC**₅₀ of 1.7 nM, about 160- and 60-fold selectivity over the closely related kinases Axl/Tyro3. IC50 & Target: IC50: 1.7 nM (Mer)^[1] **In Vitro**: UNC2250 (5-500 nM; 1 hour) inhibits Mer phosphorylation in 697 B-ALL cells with an IC₅₀ value of 9.8 nM^[1].

UNC2250 efficiently inhibits ligand-dependent phosphorylation of a chimeric protein consisting of the extracellular and transmembrane domains of the epidermal growth factor (EGF) receptor and the intracellular tyrosine kinase domain of $Mer^{[1]}$. UNC2250 incubation inhibits colony formation in soft agar cultures of the BT-12 rhabdoid tumor and the Colo699 NSCLC cell lines^[1].

PROTOCOL (Extracted from published papers and Only for reference)

Cell assay [1] BT-12 rhabdoid tumor cells (10,000 cells) were cultured in 2.0 mL of 0.35% soft agar containing 0.5× RPMI medium, 7.5% FBS, and the indicated concentrations of UNC2250 or DMSO vehicle only and overlaid with 0.5 mL of 1× RPMI medium containing 15% FBS and UNC2250 or DMSO vehicle only. Medium and UNC2250 or vehicle were refreshed 2 times per week. Colonies were stained with thiazolyl blue tetrazolium bromide and counted after 3 weeks. Colo699 NSCLC cells (15,000 cells) were cultured in 1.5 mL of 0.35% soft agar containing 1× RPMI medium and 10% FBS and overlaid with 2.0 mL of 1× RPMI medium containing 10% FBS and the indicated concentrations of UNC2250 or DMSO vehicle only. Medium and UNC2250 or vehicle were refreshed 3 times per week. Colonies were stained with nitrotetrazolium blue chloride and counted after 2 weeks.

References:

[1]. Zhang, W., et al., Pseudo-cyclization through intramolecular hydrogen bond enables discovery of pyridine substituted pyrimidines as new Mer kinase inhibitors. J Med Chem, 2013. 56(23): p. 9683-92.

[2]. Xiaodong Wang, et al. Pyrimidine compounds for the treatment of cancer.WO2013177168A1.

CAIndexNames:

Cyclohexanol, 4-[[2-(butylamino)-5-[5-(4-morpholinylmethyl)-2-pyridinyl]-4-pyrimidinyl]amino]-, trans-

SMILES:

CCCCNC1=NC(N[C@@H]2CC[C@@H](O)CC2)=C(C3=CC=C(CN4CCOCC4)C=N3)C=N1

Page 1 of 2 www.ChemScene.com

Caution: Product has not been fully validated for medical applications. For research use only.

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Page 2 of 2 www.ChemScene.com