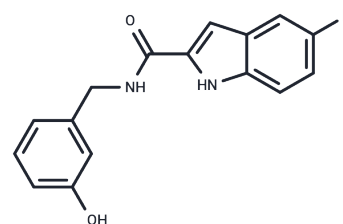


KX1-004

Chemical Properties

CAS No. : 518058-84-9
Formula: C₁₆H₁₃FN₂O₂
Molecular Weight: 284.29
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	KX1-004, a potential protective drug for NIHL, is an effective small molecule inhibitor of Src-PTK.
Targets(IC50)	Src
Kinase Assay	The Lck HTRF kinase assay involves ATP-dependent phosphorylation of a biotinylated substrate peptide of gastrin in the presence or absence of inhibitor compound. The final concentration of gastrin is 1.2 μ M. The final concentration of ATP is 0.5 μ M (K_m app = 0.6 ± 0.1 μ M), and the final concentration of Lck (a GST-kinase domain fusion (AA 225-509)) is 250 pM. Buffer conditions are as follows: 50 mM HEPES pH=7.5, 50 mM NaCl, 20 mM MgCl ₂ , 5 mM MnCl ₂ , 2 mM DTT, 0.05% BSA. The assay is quenched and stopped with 160 μ L of detection reagent. Detection reagents are as follows: Buffer made of 50 mM Tris, pH=7.5, 100 mM NaCl, 3 mM EDTA, 0.05% BSA, 0.1% Tween20. Prior to reading, Streptavidin allophycocyanin (SA-APC) is added at a final concentration in the assay of 0.0004 mg/mL, along with europilated anti-phosphotyrosine Ab (Eu-anti-PY) at a final conc of 0.025 nM. The assay plate is read in a Discovery fluorescence plate reader with excitation at 320 nm and emission at 615 and 655 nm[1].

Solubility Information

Solubility	DMSO: 60 mg/mL (211.05 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5175 mL	17.5877 mL	35.1753 mL
5 mM	0.7035 mL	3.5175 mL	7.0351 mL
10 mM	0.3518 mL	1.7588 mL	3.5175 mL
50 mM	0.0704 mL	0.3518 mL	0.7035 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.

Reference

Harris KC, et al. Hear Res. 2005 Oct;208(1-2):14-25.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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