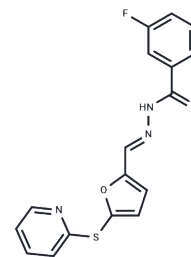


MLS000544460

Chemical Properties

CAS No. : 352336-36-8
Formula: C17H12FN3O2S
Molecular Weight: 341.36
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	MLS000544460 is a highly selective and reversible Eya2 phosphatase inhibitor (Kd: 2.0 μ M, IC50: 4 μ M) that exhibits inhibitory effects on Eya2 phosphatase-mediated cell migration and has anticancer activity.
Targets(IC50)	Phosphatase
In vitro	MLS000544460 binds to Eya2 ED (dialyzed into 10 μ M EDTA to remove Mg ²⁺) with a Kd of 0.80 μ M.[1] MLS000544460 (10 μ M) inhibits Eya2-mediated cell migration in human Eya2, Eya2 phosphatase-dead (D274N), and YFP (as a negative control) expressing MCF10A cells.[1]

Solubility Information

Solubility	DMSO: 30 mg/mL (87.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.86 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9295 mL	14.6473 mL	29.2946 mL
5 mM	0.5859 mL	2.9295 mL	5.8589 mL
10 mM	0.2929 mL	1.4647 mL	2.9295 mL
50 mM	0.0586 mL	0.2929 mL	0.5859 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

Krueger AB, et al. Allosteric inhibitors of the Eya2 phosphatase are selective and inhibit Eya2-mediated cell migration. *J Biol Chem.* 2014 Jun 6;289(23):16349-61.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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