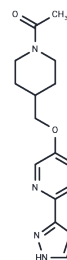


TP0472993

Chemical Properties

CAS No. : 2126874-77-7
 Formula: C₁₆H₂₀N₄O₂
 Molecular Weight: 300.36
 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	CYP4A11/CYP4F2-IN-2 is a potent and orally active dual inhibitor of cytochrome P450 (CYP) 4A11 and CYP4F2, with IC ₅₀ values of 140 nM and 40 nM, respectively. Extractable from liver and kidney, CYP4A11/CYP4F2-IN-2 has the potential to treat kidney diseases.
Targets(IC ₅₀)	Cytochromes P450

Solubility Information

Solubility	DMSO: 22.5 mg/mL (74.91 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 (6.66 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	3.3293 mL	16.6467 mL	33.2934 mL
5 mM	0.6659 mL	3.3293 mL	6.6587 mL
10 mM	0.3329 mL	1.6647 mL	3.3293 mL
50 mM	0.0666 mL	0.3329 mL	0.6659 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

Kawamura M, et al. Discovery of Novel Pyrazolylpyridine Derivatives for 20-Hydroxyeicosatetraenoic Acid Synthase Inhibitors with Selective CYP4A11/4F2 Inhibition. J Med Chem. 2022;65(21):14599-14613.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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