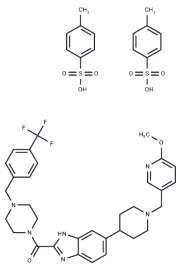
Data Sheet (Cat.No.T8432)

TargetMol

ASP4132

Chemical Properties



CAS No. : 1640294-30-9

Formula: C46H51F3N6O8S2

Molecular Weight: 937.06

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	ASP4132 is an orally active AMPK activator (EC50 : 18 nM), has anti-cancer activity.
Targets(IC50)	AMPK

Solubility Information

Solubility	Methanol: 8.33 mg/mL (8.89 mM),Sonication is recommended. DMSO: 230 mg/mL (245.45 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: 5 mg/mL (5.34 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0672 mL	5.3358 mL	10.6717 mL
5 mM	0.2134 mL	1.0672 mL	2.1343 mL
10 mM	0.1067 mL	0.5336 mL	1.0672 mL
50 mM	0.0213 mL	0.1067 mL	0.2134 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

Kazuyuki Kuramoto , Yuki Sawada, Tomohiro Yamada,et al.Novel Indirect AMP-Activated Protein Kinase Activators: Identification of a Second-Generation Clinical Candidate with Improved Physicochemical Properties and Reduced hERG Inhibitory Activity.Chem Pharm Bull (Tokyo). 2020;68(5):452-465.

Kazuyuki Kuramoto, et al. Development of a Potent and Orally Active Activator of Adenosine Monophosphate-Activated Protein Kinase (AMPK), ASP4132, as a Clinical Candidate for the Treatment of Human Cancer. Bioorg Med Chem. 2020 Mar 1;28(5):115307.

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