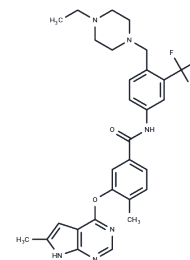


TAK1/MAP4K2 inhibitor 1

Chemical Properties

CAS No. :	1315330-11-0
Formula:	C ₂₉ H ₃₁ F ₃ N ₆ O ₂
Molecular Weight:	552.59
Storage:	Keep away from direct sunlight, Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	TAK1/MAP4K2 inhibitor 1 (compound 5) is a dual kinase inhibitor of TAK1 and MAP4K2 with IC ₅₀ values of 41.1 nM and 18.2 nM, respectively.
Targets(IC ₅₀)	MAPK
In vitro	TAK1/MAP4K2 inhibitor 1 is a highly potent dual inhibitor targeting both TGFβ-activated kinase 1 (TAK1) and MAP kinase kinase kinase kinase 2 (MAP4K2), with IC ₅₀ values of 41.1nM and 18.2nM, respectively[1].
In vivo	TAK1/MAP4K2 inhibitor 1 (1 mg/kg, iv) has moderate terminal elimination half-life (t _{1/2} =2.94 h) in mice.

Solubility Information

Solubility	DMSO: 40 mg/mL (72.39 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 (3.62 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	1.8097 mL	9.0483 mL	18.0966 mL
5 mM	0.3619 mL	1.8097 mL	3.6193 mL
10 mM	0.181 mL	0.9048 mL	1.8097 mL
50 mM	0.0362 mL	0.181 mL	0.3619 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

Tan L, et al. Discovery of type II inhibitors of TGF β -activated kinase 1 (TAK1) and mitogen-activated protein kinase kinase kinase 2 (MAP4K2). J Med Chem. 2015 Jan 8;58(1):183-96.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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