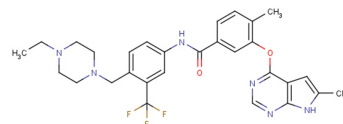


TAK1/MAP4K2 inhibitor 1

Chemical Properties

CAS No.:	1315330-11-0
Formula:	C ₂₉ H ₃₁ F ₃ N ₆ O ₂
Molecular Weight:	552.59
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	TAK1/MAP4K2 inhibitor 1 is a potent dual inhibitor of TGF β -activated kinase 1 (TAK1) and MAP4K2 (IC ₅₀ s: 41.1 nM and 18.2 nM).
Targets(IC ₅₀)	TAK1: 41.1 nM MAP4K2: 18.2 nM
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: 50 mg/mL (90.48 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.81 mL	9.048 mL	18.097 mL
5 mM	0.362 mL	1.81 mL	3.619 mL
10 mM	0.181 mL	0.905 mL	1.81 mL
50 mM	0.036 mL	0.181 mL	0.362 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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