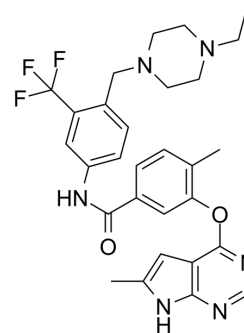


TAK1/MAP4K2 inhibitor 1

Cat. No.:	HY-77251		
CAS No.:	1315330-11-0		
Molecular Formula:	C ₂₉ H ₃₁ F ₃ N ₆ O ₂		
Molecular Weight:	552.59		
Target:	MAP4K; MAP3K		
Pathway:	MAPK/ERK Pathway		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (90.48 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	1.8097 mL	9.0483 mL	18.0966 mL
	5 mM	0.3619 mL	1.8097 mL	3.6193 mL
	10 mM	0.1810 mL	0.9048 mL	1.8097 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.75 mg/mL (4.98 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.75 mg/mL (4.98 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	TAK1/MAP4K2 inhibitor 1 is a potent dual TGFβ-activated kinase 1 (TAK1) and mitogen-activated protein kinase kinase kinase kinase 2 (MAP4K2) inhibitor, with IC ₅₀ s of 41.1 nM and 18.2 nM, respectively.	
IC₅₀ & Target	TAK1 41.1 nM (IC ₅₀)	MAP4K2 18.2 nM (IC ₅₀)
In Vivo	TAK1/MAP4K2 inhibitor 1 has moderate terminal elimination half-life (t _{1/2} =2.94 h for mice (1 mg/kg, iv)) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

CUSTOMER VALIDATION

- Korean J Physiol Pharmacol. 2022 Nov 1;26(6):469-478.

See more customer validations on www.MedChemExpress.com

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA