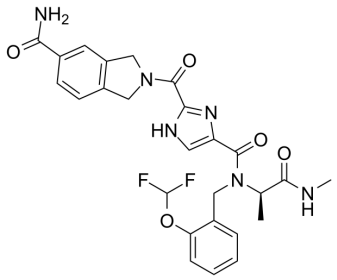
TAK1-IN-2

Cat. No.:	HY-132172
CAS No.:	2763213-98-3
Molecular Formula:	$C_{26}H_{26}F_2N_6O_5$
Molecular Weight:	540.52
Target:	MAP3K
Pathway:	MAPK/ERK Pathway
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (18.50 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8501 mL	9.2504 mL	18.5007 mL
	5 mM	0.3700 mL	1.8501 mL	3.7001 mL
	10 mM	0.1850 mL	0.9250 mL	1.8501 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1 mg/mL (1.85 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1 mg/mL (1.85 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TAK1-IN-2 is a potent and selective TAK1 inhibitor, with an $IC_{50>}$ of 2 nM[1].

IC_{50} & Target

TAK1
2 nM (IC_{50})

In Vitro

TAK1-IN-2 (compound 54) (10 μM) has no effect on cell viability in TNF-α stimulated HCT-15 cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Veerman JJN, et, al. Discovery of 2,4-1 H-Imidazole Carboxamides as Potent and Selective TAK1 Inhibitors. ACS Med Chem Lett. 2021 Mar 3;12(4):555-562.

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