MK-2461

Cat. No.:	HY-50703				
CAS No.:	917879-39-1				
Molecular Formula:	C ₂₄ H ₂₅ N ₅ O ₅ S				
Molecular Weight:	495.55				
Target:	c-Met/HGFR				
Pathway:	Protein Tyrosine Kinase/RTK				
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 : ≥ 31 mg/mL (62.56 mM) * "≥" means soluble, but saturation unknown.						
	Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	2.0180 mL	10.0898 mL	20.1796 mL		
		5 mM	0.4036 mL	2.0180 mL	4.0359 mL		
		10 mM	0.2018 mL	1.0090 mL	2.0180 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.04 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.04 mM); Clear solution 						

BIOLOGICAL ACTIVITY Description MK-2461 is a novel ATP-competitive multitargeted inhibitor of activated c-Met with a mean IC50 of 2.5 nM.IC50 value: 2.5 nM [1]Target: c-Metin vitro: MK-2461 inhibits the kinase activity of human c-Met with a mean IC50 of 2.5 nM in the presence of 50 wMATP Description

[1]Target: c-Metin vitro: MK-2461 inhibits the kinase activity of human c-Met with a mean IC50 of 2.5 nM in the presence of 50 μ M ATP. Ron (IC50 = 7 nM) and Flt1 (IC50 = 10 nM) are inhibited by MK-2461 with similar potencies to c-Met (IC50 = 2.5 nM), whereas nine other kinases, including FGFR1, FGFR2, FGFR3, PDGFR β , KDR, Flt3, Flt4, TrkA, and TrkB, are found to be 8- to 30-fold less sensitive to MK-2461 than c-Met. [1]in vivo: MK-2461 inhibits c-Met signaling and tumor growth in tumor xenograft models in mice.[1]



• Sci Transl Med. 2018 Jul 18;10(450):eaaq1093.

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REFERENCES

[1]. Pan BS, et al. MK-2461, a novel multitargeted kinase inhibitor, preferentially inhibits the activated c-Met receptor. Cancer Res. 2010 Feb 15;70(4):1524-33.

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

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