Tepotinib

Cat. No.:	HY-14721		
CAS No.:	1100598-32	-0	
Molecular Formula:	$C_{29}H_{28}N_6O_2$		
Molecular Weight:	492.57		
Target:	c-Met/HGFF	R; Autoph	agy
Pathway:	Protein Tyre	osine Kin	ase/RTK; Autophagy
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	2.0302 mL	10.1508 mL	20.3017 mL
		5 mM	0.4060 mL	2.0302 mL	4.0603 mL
		10 mM	0.2030 mL	1.0151 mL	2.0302 mL
	Please refer to the so	lubility information to select the ap	propriate solvent.		
n Vivo		one by one: 10% DMSO >> 40% PE ng/mL (1.26 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline	
		one by one: 10% DMSO >> 90% (20 ng/mL (1.26 mM); Clear solution	% SBE-β-CD in saline)		
		one by one: 10% DMSO >> 90% cor ng/mL (1.26 mM); Clear solution	n oil		

BIOLOGICAL ACTIV	
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Description	Tepotinib (EMD-1214063) is a potent and highly selective c-Met inhibitor with an IC ₅₀ of 4 nM, >200-fold selective for c-Met than IRAK4, TrkA, Axl, IRAK1, and Mer. Antitumor effects ^[1] .
In Vitro	Tepotinib (EMD 1214063) inhibits IRAK4, TrkA, Axl, IRAK1, Mer, and TrkA with IC ₅₀ s of 615, 1017, 1566, 2037, 2272, and 5716 nM, respectively ^[1] . Exposure of A549 cells to EMD 1214063 results in inhibition of HGF-induced c-Met phosphorylation, with an average IC ₅₀ of 6 nM ^[1] .

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		30 μM) inhibits tumor cell proliferation and migration in vitro ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	MKN-45 gastric cancer cells
	Concentration:	0.01 nM, 0.03 nM, 0.1 nM, 0.3 nM, 1 nM, 3 nM, 10 nM, 30 nM, 100 nM, 300 nM, 1 μ M, 3 μ M, 10 μ M and 30 μ M
	Incubation Time:	72 hours
	Result:	Considerably inhibited the viability of MKN-45 cells with IC ₅₀ values of less than 1 nM.
In Vivo	Tepotinib inhibit in vivo	B) induces tumor regression in xenograft models ^[1] . c-Met phosphorylation ^[1] .
In Vivo	Tepotinib inhibit in vivo	
In Vivo	Tepotinib inhibit in vivo MCE has not independe	c-Met phosphorylation ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.
In Vivo	Tepotinib inhibit in vivo MCE has not independe Animal Model:	 c-Met phosphorylation^[1]. ntly confirmed the accuracy of these methods. They are for reference only. CD-1 or BALB/C nude mice bearing human cancer cell lines KP-4, or EBC-1^[1] 6 and 15 mg/kg for mice bearing NSCLC EBC-1; 25, 50 and 200 mg/kg for mice bearing

CUSTOMER VALIDATION

- Sci Transl Med. 2018 Jul 18;10(450):eaaq1093.
- Sci Adv. 2020 Aug 21;6(34):eaba8968.
- Int J Biol Macromol. 2023 Apr 28;241:124656.
- Separations. 2023 May 26, 10(6), 330.
- Gene Expr. 2018 May 18;18(2):135-147.

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REFERENCES

[1]. Bladt F, et al. EMD 1214063 and EMD 1204831 constitute a new class of potent and highly selective c-Met inhibitors. Clin Cancer Res, 2013, 19(11), 2941-2951.

[2]. Zhan N, et al. The Effect of Selective c-MET Inhibitor on Hepatocellular Carcinoma in the MET-Active, β-Catenin-Mutated Mouse Model. Gene Expr. 2018 May 18;18(2):135-147.

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