## RedChemExpress

HY-151905

558.55

3029240-84-1

 $C_{30}H_{25}F_{3}N_{6}O_{2}$ 

c-Met/HGFR

Analysis.

Protein Tyrosine Kinase/RTK

D6808

Cat. No.:

CAS No.:

Target:

Pathway:

Storage:

Molecular Formula:

Molecular Weight:

## Product Data Sheet

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BIOLOGICAL ACTI	VITY				
Description	D6808 is a highly selective and potent c⊠Met inhibitor with an IC <sub>50</sub> value of 2.9 nM. D6808 induces cell apoptosis and cell cycle arrest. D6808 can be used for the research of NSCLC and gastric cancers <sup>[1]</sup> .				
IC <sub>50</sub> & Target	IC50: 2.9 nM (c⊠Met) <sup>[1]</sup>				
In Vitro	<ul> <li>D6808 shows c-Met biochemical kinase inhibitory activity with an IC<sub>50</sub> value of 2.9 nM<sup>[1]</sup>.</li> <li>D6808 (0.0001-10 μM; 5 d) shows cellular antiproliferative potency to Hs746T cancer cells with an IC<sub>50</sub> value of 0.7 nM<sup>[1]</sup>.</li> <li>D6808 displays extraordinary kinome selectivity with IC<sub>50</sub> values of 401.3, 437.2, 1386 and 203.9 nM for Axl, TrkA, TrkB and TrkC kinase, respectively<sup>[1]</sup>.</li> <li>D6808 (0-10 μM; 72 h) show antiproliferative potency to Tpr-Met fusion protein-transformed Ba/F3 cells with IC<sub>50</sub> values of 4.3, 4.2, 3.2, 1.0, 39.0 and 33.4 nM for Ba/F3-Tpr-Met, Ba/F3-Tpr-Met<sup>F1200L</sup>, Ba/F3-Tpr-Met<sup>M1250T</sup>, Ba/F3-Tpr-Met<sup>H1094Y</sup>, Ba/F3-Tpr-Met<sup>F1200I</sup>, Ba/F3-Tpr-Met<sup>L1195V</sup>, respectively<sup>[1]</sup>.</li> <li>D6808 (0-30 nM; 12 h) affects activation of MET and dose-dependently decreases the protein levels of CDK2, CDK4, CDK6, cyclin D2, and cyclin E1 and the cleave activation of PARP and caspase-9 in Ba/F3-Tpr-Met cells<sup>[1]</sup>.</li> <li>D6808 (40 nM; 24 h) induces cell apoptosis and 87.37% G0/G1 phase arrest in Ba/F3-Tpr-Met cells<sup>[1]</sup>.</li> <li>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</li> <li>Cell Proliferation Assay<sup>[1]</sup></li> </ul>				
	Cell Line:	Hs746T cancer cell line			
	Concentration:	0.0001-10 μΜ			
	Incubation Time:	5 days			
	Result:	Inhibited the cell proliferation of Hs746T cancer cells.			
	Western Blot Analysis <sup>[1]</sup>				
	Cell Line:	Hs746T and Ba/F3-Tpr-Met cell lines			
	Concentration:	0, 0.37, 1.1, 3.3, 10 and 30 nM			
	Incubation Time:	12 hours			
	Result:	Result: Suppressed the activation of MET in Hs746T and Ba/F3-Tpr-Met cells.			

Please store the product under the recommended conditions in the Certificate of

	Apoptosis Analysis <sup>[1]</sup>				
	Cell Line:	Ba/F3-Tpr-Met cell line			
	Concentration:	40 nM			
	Incubation Time:	24 hours			
	Result:	Induced 50.89% apoptosis after 48 h treatment.			
In Vivo	Pharmacokinetic Properties of D6808 in Rats <sup>[1]</sup> .				
		Rats IV 2.0 mg/kg	Rats PO 10.0 mg/kg	Rats IP 10.0 mg/kg	
	T <sub>1/2</sub> (h)	0.57	2.49	4.63	
	T <sub>max</sub> (h)	0.08	0.25	0.25	
	C <sub>max</sub> (ng/mL)	1071.23	60.98	282.12	
	AUC <sub>0-t</sub> (h×ng/mL)	483.84	48.89	820.38	
	V <sub>z</sub> (mL/kg)	3470.78			
	CL (mL/h/kg)	4207.06			
	MRT <sub>0-t</sub> (h)	0.36	1.71	3.40	
	F (%)		2.02	33.91	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.				

## REFERENCES

[1]. Wang C, et al. Discovery of D6808, a Highly Selective and Potent Macrocyclic c-Met Inhibitor for Gastric Cancer Harboring MET Gene Alteration Treatment. J Med Chem. 2022 Nov 24;65(22):15140-15164.

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

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