TMI-1

Cat. No.:	HY-101448				
CAS No.:	287403-39-8				
Molecular Formula:	C ₁₇ H ₂₂ N ₂ O ₅ S ₂				
Molecular Weight:	398.5				
Target:	MMP; Apoptosis				
Pathway:	Metabolic Enzyme/Protease; Apoptosis				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

Preparing Stock Solutions	- <u> </u>				
		Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	2.5094 mL	12.5471 mL	25.0941 mL
		5 mM	0.5019 mL	2.5094 mL	5.0188 mL
		10 mM	0.2509 mL	1.2547 mL	2.5094 mL

BIOLOGICAL ACTIV	
Description	TMI-1 is a potent inhibitor of disintegrin metalloenzyme 17 (ADAM17) and other MMPs. TMI-1 inhibits LPS-induced TNF-α secretion in human primary monocytes, and human whole blood ^[1] . TMI-1 selectively induces caspase-dependent apoptosis in triple negative (TN) and ERBB2-overexpressing breast tumor cell lines ^[2] .
IC ₅₀ & Target	ADAM17 8.4 nM (IC ₅₀)

REFERENCES

[1]. Zhang Y, et al. Identification and characterization of 4-[[4-(2-butynyloxy)phenyl]sulfonyl]-N-hydroxy-2,2-dimethyl-(3S)thiomorpholinecarboxamide (TMI-1), a novel dual tumor necrosis factor-alpha-converting enzyme/matrix metalloprotease inhibitor for the treatment of rheumatoid arthritis. J Pharmacol Exp Ther. 2004 Apr;309(1):348-55.

[2]. Mezil L, et al. Tumor selective cytotoxic action of a thiomorpholin hydroxamate inhibitor (TMI-1) in breast cancer. PLoS One. 2012;7(9):e43409.

MedChemExpress

//

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