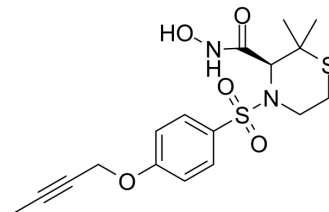


TMI-1

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:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

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.

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

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