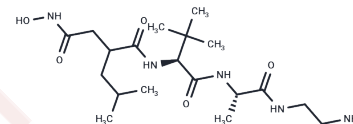


## TNF Protease Inhibitor 2

## Chemical Properties

CAS No. : 187034-31-7  
 Formula: C<sub>19</sub>H<sub>37</sub>N<sub>5</sub>O<sub>5</sub>  
 Molecular Weight: 415.53  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	TAPI-2 is a broad-spectrum inhibitor of MMP (IC <sub>50</sub> : 20 μM), tumour necrosis factor-α-converting enzyme (TACE) and a disintegrin and metalloproteinase (ADAM).
Targets(IC <sub>50</sub> )	MMP, SARS-CoV
In vitro	TAPI-2 binds to h-mepirin with IC <sub>50</sub> 20 μM for h-mepirin β subunit and 1.5 nM for h-mepirin α subunit. Generally, h-mepirin α is inhibited more strongly than the β subunit [1]. Without affecting ADAM17 expression, TAPI-2 dramatically decreases the protein levels of NICD and its downstream target HES-1 in both HCP-1 and HT29 cells. Moreover, treating cells with TAPI-2 significantly decreases the CSC phenotype by -50% in both CRC cell lines. The dose-dependent effects of TAPI-2 on the sphere formation and protein levels of NICD and HES-1 confirm that the concentration used (20 μM) is within the effective dose range of TAPI-2 (5-40 μM) [2].

## Solubility Information

Solubility	DMSO: 20 mg/mL (48.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.4066 mL	12.0328 mL	24.0657 mL
5 mM	0.4813 mL	2.4066 mL	4.8131 mL
10 mM	0.2407 mL	1.2033 mL	2.4066 mL
50 mM	0.0481 mL	0.2407 mL	0.4813 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Kruse MN, et al. Human meprin alpha and beta homo-oligomers: cleavage of basement membrane proteins and sensitivity to metalloprotease inhibitors. *Biochem J.* 2004 Mar 1;378(Pt 2):383-9.

Wang R, et al. A Disintegrin and Metalloproteinase Domain 17 Regulates Colorectal Cancer Stem Cells and Chemosensitivity Via Notch1 Signaling. *Stem Cells Transl Med.* 2016 Mar;5(3):331-8.

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