

NNGH

## Chemical Properties

CAS No. : 161314-17-6

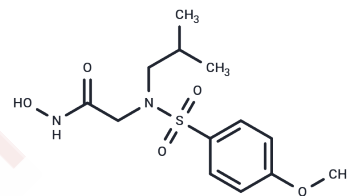
Formula: C<sub>13</sub>H<sub>20</sub>N<sub>2</sub>O<sub>5</sub>S

Molecular Weight: 316.37

Store at low temperature

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	NNGH is a matrix metalloproteinase 3 (MMP-3) inhibitor with anticancer activity that counteracts the inhibitory effects of E2 and DHT on RANKL membrane binding.
Targets(IC50)	MMP

## Solubility Information

Solubility	DMSO: 20 mg/mL (63.22 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2 mg/mL (6.32 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1609 mL	15.8043 mL	31.6086 mL
5 mM	0.6322 mL	3.1609 mL	6.3217 mL
10 mM	0.3161 mL	1.5804 mL	3.1609 mL
50 mM	0.0632 mL	0.3161 mL	0.6322 mL

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

Laurence Blavier, et al. Stromelysin-1 (MMP-3) is a target and a regulator of Wnt1-induced epithelial-mesenchymal transition (EMT). *Cancer Biol Ther.* 2010 Jul 15;10(2):198-208.

Reda Aouad M, et al. Targeting the interplay between MMP-2, CA II and VEGFR-2 via new sulfonamide-tethered isomeric triazole hybrids; Microwave-assisted synthesis, computational studies and evaluation. *Bioorg Chem.* 2022 Jul;124:105816.

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