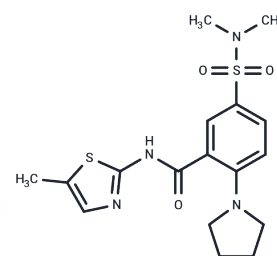


## NGI-1

## Chemical Properties

CAS No. :	790702-57-7
Formula:	C17H22N4O3S2
Molecular Weight:	394.51
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	NGI-1 (ML414) is a cell-permeable inhibitor of oligosaccharyltransferase (OST) that can effectively reduce virus infectivity without affecting cell viability.
Targets(IC50)	Virus Protease
In vitro	In non-small-cell lung cancer cells, NGI-1 blocks cell-surface localization and signaling of the epidermal growth factor receptor (EGFR) glycoprotein, but selectively arrests proliferation in only those cell lines that are dependent on EGFR (or fibroblast growth factor, FGFR) for survival[1].

## Solubility Information

Solubility	DMSO: 81.67 mg/mL (207.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn oil: < 8.17 mg/mL (20.71 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 8.17 mg/mL (20.71 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% (20% SBE-β-CD in Saline): < 8.17 mg/mL (20.71 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Saline: < 8.17 mg/mL (20.71 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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

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	1mg	5mg	10mg
1 mM	2.5348 mL	12.6739 mL	25.3479 mL
5 mM	0.507 mL	2.5348 mL	5.0696 mL
10 mM	0.2535 mL	1.2674 mL	2.5348 mL
50 mM	0.0507 mL	0.2535 mL	0.507 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

Lopez-Sambrooks C , Shrimal S , Khodier C , et al. Oligosaccharyltransferase inhibition induces senescence in RTK-driven tumor cells[J]. Nature Chemical Biology, 2016.

Lu H , Cherepanova N A , Gilmore R , et al. Targeting STT3A-oligosaccharyltransferase with NGI-1 causes herpes simplex virus 1 dysfunction[J]. The FASEB Journal, 2019.

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