

## DTP3

## Chemical Properties

CAS No. : 1809784-29-9

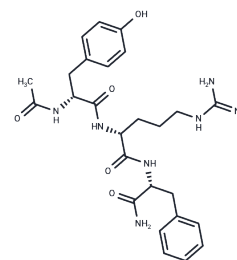
Formula: C<sub>26</sub>H<sub>35</sub>N<sub>7</sub>O<sub>5</sub>

Molecular Weight: 525.6

Keep away from moisture

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	DTP3 is a selective MKK7/GADD45β inhibitor, which inhibits cancer-selective NF-κB survival pathway.
Targets(IC50)	DNA/RNA Synthesis,JAK
In vitro	DTP3 physically interacts with MKK7 in isolation and within the complex with GADD45β, and dissociates the GADD45β/MKK7 complex via an allosteric mechanism. DTP3 selectively kills cells and induces apoptosis in MM cells with functional MKK7 and elevated GADD45β expression without toxicity to normal cells. In addition, DTP3 displays synergistic activity with bortezomib in two different MM cell lines, exhibiting a combination index of 0.56 in KMS-12 cells and of 0.21 in U266 cells. [1]
In vivo	DTP3 treatment with 14.5 mg/kg/day exhibits potent antitumor activity against MM in mouse plasmacytoma model. [1]

## Solubility Information

Solubility	Ethanol: 100 mg/mL (190.26 mM),Sonication is recommended. H <sub>2</sub> O: 100 mg/mL (190.26 mM),Sonication is recommended. DMSO: 100 mg/mL (190.26 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: 3.3 mg/mL (6.28 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.9026 mL	9.5129 mL	19.0259 mL
5 mM	0.3805 mL	1.9026 mL	3.8052 mL
10 mM	0.1903 mL	0.9513 mL	1.9026 mL
50 mM	0.0381 mL	0.1903 mL	0.3805 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

Tornatore L, et al. Cancer Cell. 2014, 26(4), 495-508.

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