

## DATPT

## Chemical Properties

CAS No. : 2891582-75-3

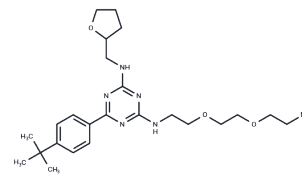
Formula: C<sub>24</sub>H<sub>39</sub>ClN<sub>6</sub>O<sub>3</sub>

Molecular Weight: 495.06

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	DATPT is a small molecule 12WLVSKF17 peptide mimetic molecule. DATPT inhibits SNX9-p47phox interactions and inhibits the production of reactive oxygen species and inflammatory cytokines. DATPT has anti-inflammatory and antimicrobial activity and acts by decreasing ATP production. DATPT is a potential compound for the treatment of sepsis.
Targets(IC50)	Reactive Oxygen Species, Antibacterial

## Solubility Information

Solubility	DMSO: 80 mg/mL (161.6 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 (6.67 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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	1mg	5mg	10mg
1 mM	2.020 mL	10.0998 mL	20.1996 mL
5 mM	0.404 mL	2.020 mL	4.0399 mL
10 mM	0.202 mL	1.010 mL	2.020 mL
50 mM	0.0404 mL	0.202 mL	0.404 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

Lee D, et al. Discovery of Mycobacterium tuberculosis Rv3364c-Derived Small Molecules as Potential Therapeutic Agents to Target SNX9 for Sepsis. J Med Chem. 2022;65(1):386-408.

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