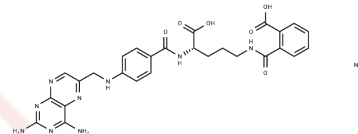


## Talotrexin ammonium

## Chemical Properties

CAS No. :	648420-92-2
Formula:	C <sub>27</sub> H <sub>30</sub> N <sub>10</sub> O <sub>6</sub>
Molecular Weight:	590.59
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	Talotrexin ammonium is a non-polyglutamic acid antifolate. Talotrexin ammonium inhibits tumor growth by targeting dihydrofolate reductase (DHFR), thereby improving anti-tumor activity in a wide range of cancer models, helping to inhibit tumor growth.
Targets(IC50)	Others,Antifolate,DHFR

## Solubility Information

Solubility	DMSO: 140 mg/mL (237.05 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (16.93 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (16.93 mM),Solution. <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	1.6932 mL	8.4661 mL	16.9322 mL
5 mM	0.3386 mL	1.6932 mL	3.3864 mL
10 mM	0.1693 mL	0.8466 mL	1.6932 mL
50 mM	0.0339 mL	0.1693 mL	0.3386 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

C S Rocha Lima, et al. A phase I study of talotrexin (PT-523) in patients with relapsed or refractory non-small cell lung cancer (NSCLC).

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