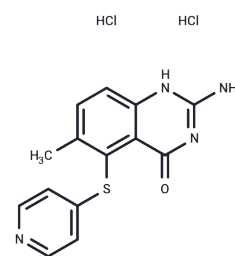


## Nolatrexed dihydrochloride

## Chemical Properties

CAS No. :	152946-68-4
Formula:	C <sub>14</sub> H <sub>14</sub> Cl <sub>2</sub> N <sub>4</sub> O <sub>5</sub>
Molecular Weight:	357.26
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	Nolatrexed dihydrochloride (Thymitaq) is the dihydrochloride salt of nolatrexed, a water-soluble lipophilic quinazoline folate analog with antineoplastic activity. Nolatrexed occupies the folate binding site of thymidylate synthase, resulting in inhibition of thymidylate synthase activity and thymine nucleotide synthesis with subsequent inhibition of DNA replication, DNA damage, S-phase cell cycle arrest, and caspase-dependent apoptosis. This agent also exhibits radiosensitizing activity.
Targets(IC50)	DNA/RNA Synthesis

## Solubility Information

Solubility	DMSO: >10 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 (5.6 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	2.7991 mL	13.9954 mL	27.9908 mL
5 mM	0.5598 mL	2.7991 mL	5.5982 mL
10 mM	0.2799 mL	1.3995 mL	2.7991 mL
50 mM	0.056 mL	0.2799 mL	0.5598 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

Hughes AN, et al. Br J Y. 2000 May;82(9):1519-27.

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