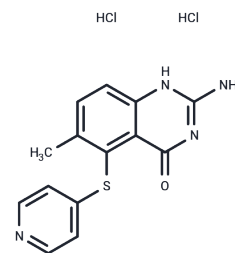


Nolatrexed dihydrochloride

Chemical Properties

CAS No. :	152946-68-4
Formula:	C ₁₄ H ₁₄ Cl ₂ N ₄ O ₅
Molecular Weight:	357.26
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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)
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Preparing Stock Solutions

	1mg	5mg	10mg
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

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.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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