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Zuschläge

- Mindermengenzuschlag
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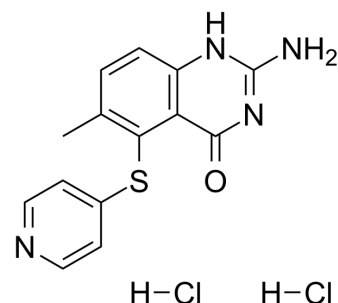
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Nolatrexed dihydrochloride

Cat. No.:	HY-108474
CAS No.:	152946-68-4
Molecular Formula:	C ₁₄ H ₁₄ Cl ₂ N ₄ OS
Molecular Weight:	357.26
Target:	Thymidylate Synthase
Pathway:	Apoptosis
Storage:	-20°C, sealed storage, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (139.95 mM; Need ultrasonic)					
	DMSO : 41.67 mg/mL (116.64 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		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
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 25 mg/mL (69.98 mM); Clear solution; Need ultrasonic and warming					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.82 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.82 mM); Clear solution					
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.82 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Nolatrexed dihydrochloride (AG 337) is a non-competitive lipophilic inhibitor of thymidylate synthase, interacts at the folate cofactor binding site of the enzyme, with a K _i of 11 nM for human thymidylate synthase ^[1] . Nolatrexed dihydrochloride (AG 337) induces cell cycle arrest in S phase of cancer cells. Anti-cancer activity ^[2] .
IC ₅₀ & Target	Ki: 11 nM (Human Thymidylate Synthase) ^[1]

CUSTOMER VALIDATION

- Commun Biol. 2022 Jun 23;5(1):619.

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REFERENCES

- [1]. Webber S, et al. AG337, a novel lipophilic thymidylate synthase inhibitor: in vitro and in vivo preclinical studies. Cancer Chemother Pharmacol. 1996;37(6):509-17.
- [2]. McGuire JJ, et al. Characterization of the effect of AG337, a novel lipophilic thymidylate synthase inhibitor, on human head and neck and human leukemia cell lines.
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Caution: Product has not been fully validated for medical applications. For research use only.

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