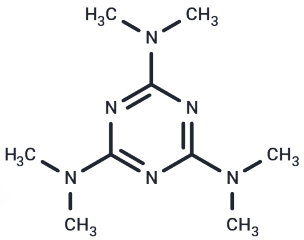
Data Sheet (Cat.No.T1241)

TargetMol

Altretamine

Chemical Properties



CAS No. : 645-05-6

Formula: C9H18N6

Molecular Weight: 210.28

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	Altretamine (ENT-50852) is an alkylating agent with antineoplastic activity.
Targets(IC50)	DNA Alkylation,DNA Alkylator/Crosslinker
In vitro	In elevated plus-maze and light/dark tests in BALB/c mice, Flumazenil (1 mg/kg) exhibited strong anxiolytic effects. Flumazenil (3 mg/kg) prevented alterations induced by chronic ethanol withdrawal in mice, such as decreased open arm time and percentage of open arm entries. In rats, Flumazenil (10 mg/kg) effectively counteracted the reductive effects of tetrahydropregnanolone. Flumazenil (5-20 mg/kg) antagonized the effects of diazepam in mice without affecting the anticonvulsant and adverse responses to GYKI52466. In the MES model, as opposed to the PTZ test, Flumazenil slightly reduced the anticonvulsant activity of NBQX. Flumazenil binds to central benzodiazepine (BZD) receptors, thereby antagonizing or reversing the neurophysiological effects of BZD depressants and agonists. It reverses the depressant sedative responses caused by the combined use of BZD and other drugs but is not effective for cyclic antidepressant overdose.

Solubility Information

Solubility	DMSO: 6.9 mg/mL (32.81 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 8 mg/mL (38.04 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: 0.5 mg/mL (2.38 mM),Sonication is recommended. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 0.69 mg/mL (3.28 mM),Solution. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7556 mL	23.7778 mL	47.5556 mL
5 mM	0.9511 mL	4.7556 mL	9.5111 mL
10 mM	0.4756 mL	2.3778 mL	4.7556 mL
50 mM	0.0951 mL	0.4756 mL	0.9511 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

Keldsen N, et al. Gynecol Oncol. 2003 Feb;88(2):118-22.