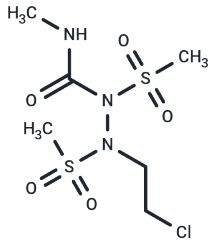
Data Sheet (Cat.No.T70229)

TargetMol

Laromustine

Chemical Properties



CAS No. : 173424-77-6

Formula: C6H14ClN3O5S2

Molecular Weight: 307.78

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	Laromustine (VNP40101M) is a sulfonyl hydrolytic alkylating prodrug used in cancer therapy with significant anticancer activity. Inhibiting thioredoxin reductase can be used to study acute myeloid leukemia.
Targets(IC50)	DNA/RNA Synthesis
In vitro	Laromustine caused direct inhibition of CYP2B6 and CYP3A4/5 as well as of CYP2C19. CYP2B6 K(i)=125 mM, CYP3A4/5 K(i)=297 mM, and CYP2C19 K(i)=349 mM and were greater than the average clinical plasma C(max) of Laromustine (C(max)=25 mM). [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2491 mL	16.2454 mL	32.4907 mL
5 mM	0.6498 mL	3.2491 mL	6.4981 mL
10 mM	0.3249 mL	1.6245 mL	3.2491 mL
50 mM	0.065 mL	0.3249 mL	0.6498 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

Nassar AE, et al. An in vitro evaluation of the victim and perpetrator potential of the anticancer agent laromustine (VNP40101M), based on reaction phenotyping and inhibition and induction of cytochrome P450 enzymes. Drug Metab Dispos. 2009 Sep;37(9):1922-30.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481