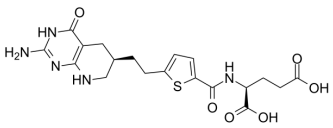
LY309887

Cat. No.:	HY-10818
CAS No.:	127228-54-0
Molecular Formula:	$C_{19}H_{23}N_5O_6S$
Molecular Weight:	449.48
Target:	Antifolate
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (222.48 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2248 mL	11.1240 mL	22.2479 mL
	5 mM	0.4450 mL	2.2248 mL	4.4496 mL
	10 mM	0.2225 mL	1.1124 mL	2.2248 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

LY309887 is a potent inhibitor of glycinamide ribonucleotide formyltransferase (GARFT), with a K_i of 6.5 nM, and has antitumor activity.

IC_{50} & Target

Ki: 6.5 nM (GARFT), 1.78 nM (Folate receptor α), 18.2 nM (Folate receptor β)[1]

In Vitro

LY309887 is a potent inhibitor of glycinamide ribonucleotide formyltransferase (GARFT), with a K_i of 6.5 nM for human GARFT and also has high affinity at human folate receptor (FR)α and FRβ (K_i, 1.78 nM and 18.2 nM, respectively). LY309887 is signigicantly cytotoxic against the human leukemia cell line CCRF-CEM with IC_{50} of 9.9 nM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

LY309887 (3 mg/kg-100 mg/kg, i.p.) shows complete inhibition on the tumor growth in mice bearing C3H mammary cancer cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mendelsohn LG, et al. Biochemistry and pharmacology of glycinamide ribonucleotide formyltransferase inhibitors: LY309887 and lometrexol. Invest New Drugs. 1996;14(3):287-94.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA