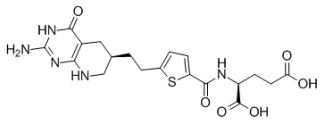
LY309887

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:	Please store the product under the recommended conditions in the COA.



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].
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].

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.

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