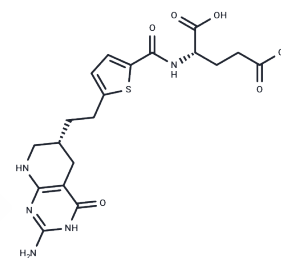


LY309887

## Chemical Properties

CAS No. : 127228-54-0  
 Formula: C<sub>19</sub>H<sub>23</sub>N<sub>5</sub>O<sub>6</sub>S  
 Molecular Weight: 449.48  
 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	LY309887 is a potent inhibitor of glycinamide ribonucleotide formyltransferase (K <sub>i</sub> : 6.5 nM) with antitumor activity.
Targets(IC <sub>50</sub> )	Antifolate,LTR
In vitro	LY309887 is significantly cytotoxic against the human leukemia cell line CCRF-CEM (IC <sub>50</sub> : 9.9 nM). LY309887 also has high affinity at human folate receptor (FR) $\alpha$ and FR $\beta$ (K <sub>i</sub> , 1.78 nM, and 18.2 nM, respectively) .
In vivo	In mice bearing C3H mammary cancer cells, LY309887 (3 mg/kg-100 mg/kg, i.p.) displays complete inhibition on the tumor growth.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2248 mL	11.124 mL	22.2479 mL
5 mM	0.445 mL	2.2248 mL	4.4496 mL
10 mM	0.2225 mL	1.1124 mL	2.2248 mL
50 mM	0.0445 mL	0.2225 mL	0.445 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

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

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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