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**Product Data Sheet**

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Product Name: LY309887

Cat. No.: GC33373

**Chemical Properties**

Cas. No. 127228-54-0

SMILES O=C(O)CC[C@@H](C(O)=O)NC(C1=CC=C(CC[C@@H](CN2)CC3=C2N=C(N)NC3=O)S1)=OFormula C<sub>19</sub>H<sub>23</sub>N<sub>5</sub>O<sub>6</sub>S M.Wt 449.48

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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

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) $\alpha$  and FR $\beta$  ( $K_i$ , 1.78 nM and 18.2 nM, respectively). LY309887 is significantly cytotoxic against the human leukemia cell line CCRF-CEM with IC<sub>50</sub> of 9.9 nM[1].

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

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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