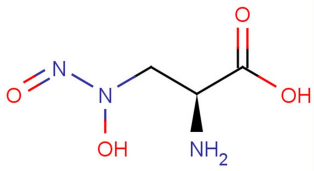
Data Sheet (Cat.No.T15691)

TargetMol
A DRUG SCREENING EXPERT

L-Alanosine

Chemical Properties



CAS No.:	5854-93-3
Formula:	C3H7N3O4
Molecular Weight:	149.11
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	L-Alanosine inhibits adenylosuccinate synthetase. L-Alanosine is an antibiotic from Streptomyces alanosinicus with antineoplastic activity. L-Alanosine blocks the common de novo purine biosynthesis pathway and, thereby, inhibit tumor cells with MTAP deficiency.
Targets(IC_{50})	Others: None

Solubility Information

Solubility	H2O: 15 mg/mL (100.60 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.706 mL	33.532 mL	67.065 mL
5 mM	1.341 mL	6.706 mL	13.413 mL
10 mM	0.671 mL	3.353 mL	6.706 mL
50 mM	0.134 mL	0.671 mL	1.341 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Efferth T, et al. Identification of gene expression profiles predicting tumor cell response to L-alanosine. Biochem Pharmacol. 2003 Aug 15;66(4):613-21.
2. Chitnis MP, et al. Antitumor effect of L-alanosine (NSC 153553) on sensitive and resistant sublines of murine leukemias. Tumori. 1984 Aug 31;70(4):317-20.
3. Tyagi AK, et al. Identification of the antimetabolite of L-alanosine, L-alanosyl-5-amino-4-imidazolecarboxylic acid ribonucleotide, in tumors and assessment of its inhibition of adenylosuccinate synthetase. Cancer Res. 1980 Dec;40(12):4390-7.

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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481