Data Sheet (Cat.No.TN2779)

TargetMol

2-Methylaminoethanol

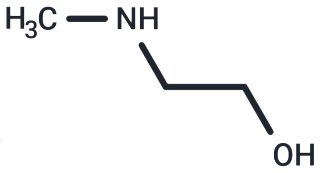
Chemical Properties

CAS No. : 109-83-1

Formula: C3H9NO

Molecular Weight: 75.11

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	2-Methylaminoethanol inhibits High affinity choline transporter 1 and also inhibits Betaine aldehyde dehydrogenase in Escherichia coli.
Targets(IC50)	Dehydrogenase
In vitro	**Methods** AND **Results**: Effect of 2-aminoethanol, 2-Methylaminoethanol , 2-dimethylaminoethanol, choline, and their phosphorylated compounds on the growth of Ehrlich solid tumor and in vitro growth of Yoshida sarcoma cells was examined and following facts were revealed. 1) On the Ehrlich tumor, 2-aminoethyl dihydrogenphosphate and 2-methylaminoethyl dihydrogenphosphate had a growth-promoting effect while the others had no effect. 2) 2-Aminoethanol and 2-aminoethyl dihydrogenphosphate were inhibitive to the in vitro growth of Yoshida sarcoma cells but others had no effect. CONCLUSIONS: 3) There was entirely no difference in the lipids between the groups administered and not administered 2-aminoethyl dihydrogenphosphate.

Solubility Information

Solubility	DMSO: 180 mg/mL (2396.49 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	13.3138 mL	66.569 mL	133.1381 mL
5 mM	2.6628 mL	13.3138 mL	26.6276 mL
10 mM	1.3314 mL	6.6569 mL	13.3138 mL
50 mM	0.2663 mL	1.3314 mL	2.6628 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

Effect of Amino Alcohols and their Phosphoryl Compounds on the Growth of Experimentally Transplantable Cancer. Chemical & Pharmaceutical Bulletin, 2008,8 (10) :900-903
Juelin Li, et al. Volumetric Properties, Viscosities, and Refractive Indices for Aqueous 2-(Methylamino)ethanol Solutions from (298.15 to 343.15) K. Journal of Chemical & Engineering. January 23, 2007