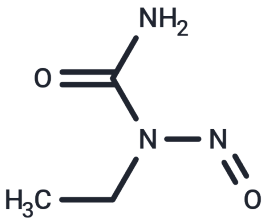
Data Sheet (Cat.No.T203564)

TargetMol

N-Ethyl-N-nitrosourea

Chemical Properties



CAS No. : 759-73-9

Formula: C3H7N3O2

Molecular Weight: 117.11

Storage: Store at low temperature
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	N-Ethyl-N-nitrosourea (ENU) is a DNA alkylating agent that alkylates nucleobases and damages DNA, inducing bone marrow suppression and leukemic cell formation, leading to leukemia, tumorigenesis, genetic disorders, and teratogenicity.
Targets(IC50)	DNA Alkylation

Solubility Information

Solubility	DMSO: 140 mg/mL (1195.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.539 mL	42.6949 mL	85.3898 mL
5 mM	1.7078 mL	8.539 mL	17.078 mL
10 mM	0.8539 mL	4.2695 mL	8.539 mL
50 mM	0.1708 mL	0.8539 mL	1.7078 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

Hou X, et al. N-Ethyl-N-Nitrosourea Induced Leukaemia in a Mouse Model: Protective Effect of Icaritin via Inhibition of IL-6/JAK2/STAT3 Pathway Causes Apoptosis. J Inflamm Res. 2024 Feb 7;17:777-790.

Goth R, et al. Persistence of O6-ethylguanine in rat-brain DNA: correlation with nervous system-specific carcinogenesis by ethylnitrosourea. Proc Natl Acad Sci U S A. 1974 Mar;71(3):639-43.

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