

N,N'-Dimethylhydrazine dihydrochloride

Chemical Properties

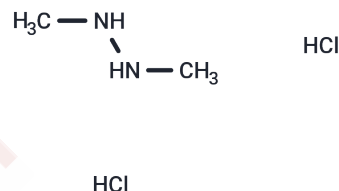
CAS No. : 306-37-6

Formula: C₂H₁₀Cl₂N₂

Molecular Weight: 133.02

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	'N,N'-Dimethylhydrazine (1,2-Dimethylhydrazine) dihydrochloride functions as a tumor inducer, specifically inducing colon tumors in rodents, as evidenced by references [1] [2].
In vivo	N,N'-Dimethylhydrazine (DMH) administered subcutaneously at 20 mg/kg weekly for 24 weeks induces colon cancer in ICR mice. Similarly, in male inbred F344 rats, a dosage of 20 mg in 4 mg/mL normal saline with 1.5% EDTA (pH 6.4) given subcutaneously for 20 or 35 weeks leads to a higher incidence of intestinal adenocarcinomas, particularly in rats fed a meat-based "Western" diet rather than a grain-based diet, with colon cancer occurrence rates of 83% and 31%, respectively [1][2]. In rats, this tumor-inducing effect is effectively inhibited by Lactobacillus acidophilus.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.5177 mL	37.5883 mL	75.1767 mL
5 mM	1.5035 mL	7.5177 mL	15.0353 mL
10 mM	0.7518 mL	3.7588 mL	7.5177 mL
50 mM	0.1504 mL	0.7518 mL	1.5035 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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