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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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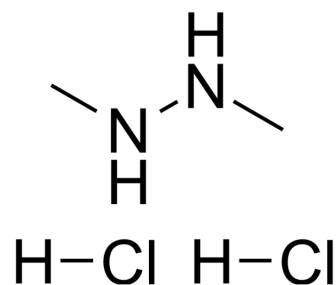
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N,N'-Dimethylhydrazine dihydrochloride

Cat. No.:	HY-W460407
CAS No.:	306-37-6
Molecular Formula:	C ₂ H ₁₀ Cl ₂ N ₂
Molecular Weight:	133.02
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 175 mg/mL (1315.59 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

N,N'-Dimethylhydrazine (1,2-Dimethylhydrazine) dihydrochloride is a tumor inducer that induces colon tumors in rodents^[1]
^[2].

In Vivo

N,N'-Dimethylhydrazine (DMH) (20 mg/kg; sc; once weekly, 24 wk) can induce colon cancer in ICR mice^[1].
N,N'-Dimethylhydrazine (20 mg/kg ; sc; 20 wk) induces intraperitoneal intestinal tumors in rats, an effect that is potently inhibited by Lactobacillus acidophilus. Mice that consumed a beef diet that mimicked a "Western" diet had a higher incidence of colon cancer than grain-fed mice (83% vs. 31%, respectively)^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	ICR mouse ^[1]
Dosage:	20 mg/kg
Administration:	sc; once weekly for 24 weeks; sacrificed mouse after between 23 and 33 weeks.
Result:	Induced colon cancer in ICR mice.

Animal Model:	Male inbred F344 rats ^[1]
Dosage:	20 mg, 4 mg/mL dissolved in normal saline containing 1.5% EDTA (pH 6.4 and filter sterilized)
Administration:	sc; weekly for 20 or 35 weeks
Result:	Produced a higher incidence of adenocarcinomas in the small and large intestines of animals that were consuming the meat diet.

REFERENCES

- [1]. Nakamura S, et al. Morphogenesis of colonic adenomas in mice treated with N,N'-dimethylhydrazine dihydrochloride. *Acta Pathol Jpn.* 1982 May;32(3):473-81.
- [2]. Goldin BR, et al. Effect of *Lactobacillus acidophilus* dietary supplements on 1,2-dimethylhydrazine dihydrochloride-induced intestinal cancer in rats. *J Natl Cancer Inst.* 1980 Feb;64(2):263-5.

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

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