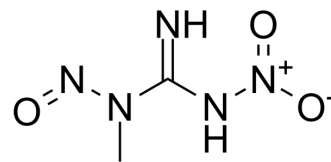


Methylnitronitrosoguanidine

Cat. No.:	HY-128612
CAS No.:	70-25-7
Molecular Formula:	C ₂ H ₅ N ₅ O ₃
Molecular Weight:	147.09
Target:	DNA Alkylator/Crosslinker
Pathway:	Cell Cycle/DNA Damage
Storage:	Pure form -20°C 3 years 4°C 2 years



* The compound is unstable in solutions, freshly prepared is recommended.

SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (1699.64 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	6.7986 mL	33.9928 mL	67.9856 mL
			5 mM	1.3597 mL	6.7986 mL	13.5971 mL
			10 mM	0.6799 mL	3.3993 mL	6.7986 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (14.14 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (14.14 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (14.14 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Methylnitronitrosoguanidine (MNNG) is an alkylating agent with toxic and mutagenic effects ^[1] .
IC ₅₀ & Target	DNA Alkylator/Crosslinker ^[1]

REFERENCES

[1]. Slapikoff SA, et al. Comparison of toxicity and mutagenicity of methylnitrosourea, methylnitronitrosoguanidine and ICR-191 among human lymphoblast lines. *Mutat Res.* 1980 May;70(3):365-71.

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

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