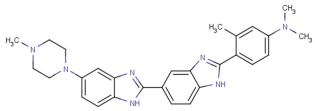
Data Sheet (Cat.No.T12019)

TargetMol
A DRUG SCREENING EXPERT

Methylproamine

Chemical Properties



CAS No.:	188247-01-0
Formula:	C28H31N7
Molecular Weight:	465.59
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Methylproamine is a DNA-binding radioprotector , acts by repair of transient radiation-induced oxidative species on DNA.
Targets(IC_{50})	Others: None

Solubility Information

Solubility	DMSO: 41 mg/mL (88.06 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.148 mL	10.739 mL	21.478 mL
5 mM	0.43 mL	2.148 mL	4.296 mL
10 mM	0.215 mL	1.074 mL	2.148 mL
50 mM	0.043 mL	0.215 mL	0.43 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Lobachevsky PN, Vasireddy RS, Broadhurst S, Protection by methylproamine of irradiated human keratinocytes correlates with reduction of DNA damage. Int J Radiat Biol. 2011 Mar;87(3):274-83.
2. Sprung CN, Vasireddy RS, Karagiannis TC, Methylproamine protects against ionizing radiation by preventing DNA double-strand breaks. Mutat Res. 2010 Oct 13;692(1-2):49-52.
3. Martin RF, Broadhurst S, Reum ME, In vitro studies with methylproamine: a potent new radioprotector. Cancer Res. 2004 Feb 1;64(3):1067-70.

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