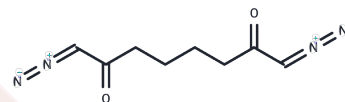


Bis(diazoacetyl)butane

Chemical Properties

CAS No. :	1448-16-4
Formula:	C ₈ H ₁₀ N ₄ O ₂
Molecular Weight:	194.19
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	Bis(diazoacetyl)butane is a mutagen and traditionally related to radio-mimetic chemical mutagens due to the similarity of appearance of mutagenic action of this mutagen and physical mutagens. It also has anti-tumor and carcinogenic activity.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.1496 mL	25.748 mL	51.496 mL
5 mM	1.0299 mL	5.1496 mL	10.2992 mL
10 mM	0.515 mL	2.5748 mL	5.1496 mL
50 mM	0.103 mL	0.515 mL	1.0299 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

- Aslanian MM, Kim AI, Smirnova VA. [Characteristics of the mutagenic action of 1,4-bis-diazoacetylbutane on mature *Drosophila melanogaster* sperm]. *Genetika*. 1981;17(4):677-83. Russian. PubMed PMID: 6785154.
- Shigaeva MKh, Akhmatullina NB, Dzhangalina NK. [Effect of nonmutagenic doses of 1,4-bis-diazoacetylbutane on *Streptomyces griseus*]. *Mikrobiologiya*. 1982 Nov-Dec;51(6):993-6. Russian. PubMed PMID: 6818438.
- Ivanovskii IuA, Kulinich NM. [Stimulating action of gamma irradiation and alkylating compounds on the brine shrimp, *Artemia salina*. 3. 3H-thymidine and 3H-uridine incorporation into the nauplii of *A. salina* irradiated or treated with 1-4-bis-diazoacetylbutane at the embryonic diapause stage]. *Radiobiologiya*. 1980 May-Jun;20(3):414-8. Russian. PubMed PMID: 7406993.
- Gorbunova NA, Sukharevich ME, Iakovleva EP. [Natural and induced variability of pathogen, producing antifungal antibiotic, imbrimycin]. *Antibiot Khimioter*. 1998;43(3):3-7. Russian. PubMed PMID: 9606489.

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