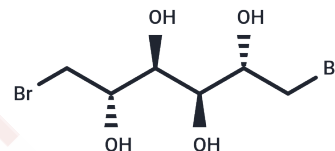


Mitobronitol

Chemical Properties

CAS No. :	488-41-5
Formula:	C ₆ H ₁₂ Br ₂ O ₄
Molecular Weight:	307.97
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	Mitobronitol (Myelobromol; DBM) is a brominated analog of mannitol and an anticancer agent classified as an alkylating agent. Mitobronitol exhibits myelosuppressive effects, significantly reducing the risk of several complications in allogeneic bone marrow transplantation for accelerated chronic granulocytic leukemia [1] [2].
Targets(IC50)	Others,DNA Alkylator/Crosslinker
In vivo	Mitobronitol (850 mg/kg; i.p.; single dose) enhances spleen cell proliferation in response to mitogens and promotes thymus regeneration in an 8-10 week-old female BALB-c mouse model. Administered intraperitoneally at 850 mg/kg and 1500 mg/kg in 5% Tween 80 saline, the compound significantly improved spleen cell proliferation at 850 mg/kg and expedited thymus regeneration at 1500 mg/kg, achieving notable regeneration within 3 weeks, outperforming the control group.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2471 mL	16.2353 mL	32.4707 mL
5 mM	0.6494 mL	3.2471 mL	6.4941 mL
10 mM	0.3247 mL	1.6235 mL	3.2471 mL
50 mM	0.0649 mL	0.3247 mL	0.6494 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481