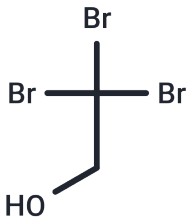
Data Sheet (Cat.No.T0807)

TargetMol

Tribromoethyl alcohol

Chemical Properties



CAS No. : 75-80-9

Formula: C2H3Br3O

Molecular Weight: 282.76

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	Tribromoethyl alcohol (Avertin) is an organic compound used to anesthetize mice. This product also provides a ready to use version without the need for preparation, with better stability and repeatability. Ready To Use Tribromoethanol: C0183 1.25% Avertin (Anesthesia For Mice) and C0184 2.5% Avertin (Anesthesia For Rat).
Targets(IC50)	Others
In vivo	Tribromoethanol has been proposed as an acceptable anaesthetic in dogs, cats, mice, rats, and gerbils. It possesses a concentration dependent irritant effect. When used at low concentration, it displays good anesthetic effect. A high dose of tribromoethanol is not a suitable anesthetic for major surgery in all mouse strains because of the risk of pathologic changes in the abdominal organs, such as retention of the digestive tract, peritonitis, and fibrinoid adhesion[1][2].

Solubility Information

Solubility	DMSO: 237 mg/mL (838.17 mM),Sonication is recommended. H2O: 40 mg/mL (141.46 mM),Sonication is recommended. Ethanol: 52 mg/mL (183.9 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (17.68 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5366 mL	17.6828 mL	35.3657 mL
5 mM	0.7073 mL	3.5366 mL	7.0731 mL
10 mM	0.3537 mL	1.7683 mL	3.5366 mL
50 mM	0.0707 mL	0.3537 mL	0.7073 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

Lee MR, et al. Comparison of the anesthetic effects of 2,2,2-tribromoethanol on ICR mice derived from three different sources. Lab Anim Res. 2018 Dec;34(4):270-278.
Song Y, Chen Y, Cai H, et al.Lentinan attenuates allergic airway inflammation and epithelial barrier dysfunction in asthma via inhibition of the PI3K/AKT/NF-κB pathway.Phytomedicine.2024: 155965.
Yoon Ju Cho, et al. Lab Anim Res. 2010, 26(3):241-247.

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