Screening Libraries

Product Data Sheet

Ethylene dimethanesulfonate

Cat. No.: HY-129524 CAS No.: 4672-49-5 Molecular Formula: $C_4 H_{10} O_6 S_2$ Molecular Weight: 218.25 Target: **Apoptosis** Pathway: **Apoptosis**

Storage: Powder -20°C 3 years

2 years

In solvent -80°C 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (458.19 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	4.5819 mL	22.9095 mL	45.8190 mL
	5 mM	0.9164 mL	4.5819 mL	9.1638 mL
	10 mM	0.4582 mL	2.2910 mL	4.5819 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: ≥ 2.5 mg/mL (11.45 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.45 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.45 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Ethylene dimethane sulfonate is a mild alkylating, non-volatile methanesulfonic diester of ethylene glycol. Ethylene dimethanesulfonate has selective pro-apoptotic effects on $LCs^{[1]}$.
In Vivo	Ethylene dimethanesulfonate (subcutaneous injection; 75 mg/kg; 7 days) disrupts epididymal function and leads to sperm granuloma formation in rat ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES				
	methane sulfonate (EDS) abla	ition of Levdig cells in adult ration	depletes testosterone resulting in	epididymal sperm granuloma: Testosterone
replacement prevents granulo			acpietes testosterone resutting in	epididymat sperm grandioma. restosterone
	Caution: Product has r	ot been fully validated for r	nedical applications. For rese	arch use only.
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