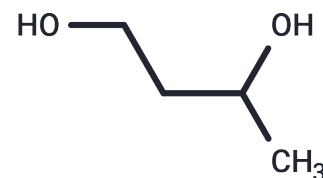


1,3-BUTANEDIOL

Chemical Properties

CAS No. :	107-88-0
Formula:	C ₄ H ₁₀ O ₂
Molecular Weight:	90.12
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	1,3-Butanediol (BD) is a ketogenic substance. Ketone bodies are essential energy substrates in the absence of exogenous nutrients, and more recently, they have been suggested to prevent disease and improve longevity.
Targets(IC50)	Others,Endogenous Metabolite
In vivo	1,3-Butanediol treatment effectively decreased food intake and body weight in diet induced obese mice.1,3-butanediol lowers blood pressure and renal injury in female rats[1].

Solubility Information

Solubility	DMSO: 60 mg/ml (665.78 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	11.0963 mL	55.4816 mL	110.9632 mL
5 mM	2.2193 mL	11.0963 mL	22.1926 mL
10 mM	1.1096 mL	5.5482 mL	11.0963 mL
50 mM	0.2219 mL	1.1096 mL	2.2193 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.

Reference

Ishimwe J A , Garrett M R , Sasser J M . 1,3-Butanediol attenuates hypertension and suppresses kidney injury in female rats[J]. American journal of physiology. Renal physiology, 2020, 319(1).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481