2,2,2-Trichloroethanol

Cat. No.: HY-B1500

CAS No.: 115-20-8

Molecular Formula: $C_2H_3Cl_3O$

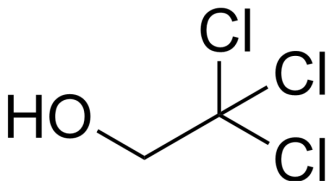
Molecular Weight: 149.4

Target: Potassium Channel; Endogenous Metabolite

Pathway: Membrane Transporter/Ion Channel; Metabolic Enzyme/Protease

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (669.34 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	6.6934 mL	33.4672 mL	66.9344 mL
	5 mM	1.3387 mL	6.6934 mL	13.3869 mL
	10 mM	0.6693 mL	3.3467 mL	6.6934 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 (16.73 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (16.73 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (16.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2,2,2-Trichloroethanol, the active form of Chloral hydrate, is an agonist for the nonclassical K_{2P} channels TREK-1 (KCNK2) and TRAAK (KCNK4)[1].

IC_{50} & Target

Human Endogenous Metabolite

In Vitro

2,2,2-trichloroethanol activates a nonclassical potassium channel in cerebrovascular smooth muscle and dilates the middle cerebral artery[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nikhil K Parelkar , et al. 2,2,2-trichloroethanol Activates a Nonclassical Potassium Channel in Cerebrovascular Smooth Muscle and Dilates the Middle Cerebral Artery. J Pharmacol Exp Ther. 2010 Mar;332(3):803-10.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA