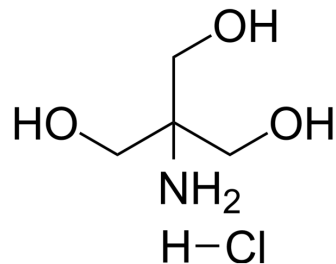


THAM hydrochloride

Cat. No.:	HY-D0227A
CAS No.:	1185-53-1
Molecular Formula:	C ₄ H ₁₂ ClNO ₃
Molecular Weight:	157.6
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (1586.29 mM; Need ultrasonic)
H₂O : 50 mg/mL (317.26 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.3452 mL	31.7259 mL	63.4518 mL
	5 mM	1.2690 mL	6.3452 mL	12.6904 mL
	10 mM	0.6345 mL	3.1726 mL	6.3452 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (634.52 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 4.17 mg/mL (26.46 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 4.17 mg/mL (26.46 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 4.17 mg/mL (26.46 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

THAM hydrochloride (Tris HCl) is a biologically inert amino alcohol of low toxicity, which buffers carbon dioxide and acids in vitro and in vivo. THAM hydrochloride is an effective amine compound for pH control in the physiological range^{[1][2]}.

REFERENCES

[1]. Höstman S, et al. THAM reduces CO₂-associated increase in pulmonary vascular resistance - an experimental study in lung-injured piglets. Crit Care. 2015 Sep 17;19(1):331.

[2]. Nahas GG, et al. Guidelines for the treatment of acidaemia with THAM. Drugs. 1998 Feb;55(2):191-224.

Caution: Product has not been fully validated for medical applications. For research use only.

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