THAM hydrochloride

MedChemExpress

®

Cat. No.:	HY-D0227A	
CAS No.:	1185-53-1	_OH
Molecular Formula:	C ₄ H ₁₂ ClNO ₃	ſ
Molecular Weight:	157.6	HO_{\star} \downarrow OH
Target:	Biochemical Assay Reagents	
Pathway:	Others	NH_2
Storage:	4°C, sealed storage, away from moisture	H–Cl
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

		Solvent Mass	1 mg	5 mg	10 mg		
		Concentration					
	Preparing Stock Solutions	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 so	lubility information to select the ap	propriate solvent.				
n Vivo		1. Add each solvent one by one: PBS Solubility: 100 mg/mL (634.52 mM); Clear solution; Need ultrasonic					
		2. 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					
		3. 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					
		4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 4.17 mg/mL (26.46 mM); Clear solution					

OLOGICAL ACTIVITY	
escription	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.

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