DMAPS

Cat. No.: HY-W099581

CAS No.: 14933-09-6

Molecular Formula: $C_{19}H_{41}NO_3S$

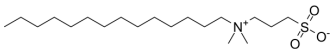
Molecular Weight: 363.6

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 : 6.25 mg/mL (17.19 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7503 mL	13.7514 mL	27.5027 mL
	5 mM	0.5501 mL	2.7503 mL	5.5005 mL
	10 mM	0.2750 mL	1.3751 mL	2.7503 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: ≥ 0.83 mg/mL (2.28 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 0.83 mg/mL (2.28 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.83 mg/mL (2.28 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Zwittergent 3-14 (DMAPS) is a zwitterionic detergent commonly used in biochemistry and molecular biology for the solubilization and purification of membrane-bound proteins and other hydrophobic biomolecules, which have both hydrophilic and hydrophobic moieties , so that it has good detergency properties, making it suitable for stabilizing membrane proteins in aqueous solutions. In addition, DMAPS has been used in various techniques such as electrophoresis and chromatography for the separation and analysis of biomolecules. The long The hydrocarbon chains provide it with good membrane penetration and solubilization capabilities, while the sulfonate and quaternary ammonium groups ensure water solubility and charge neutrality.

In Vitro

3-(N,N-Dimethylmyristylammonio)propanesulfonate is a biochemical reagent that can be used as a biological material or

	organic compound for life science related research. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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