CAPS

Cat. No.: HY-D0869

CAS No.: 1135-40-6

Molecular Formula: $C_9H_{19}NO_3S$

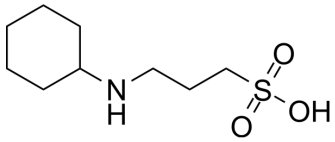
Molecular Weight: 221.32

Target: Biochemical Assay Reagents

Pathway: Others

Storage:

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



SOLVENT & SOLUBILITY

In Vitro

H_2O : 125 mg/mL (564.79 mM; Need ultrasonic)

DMSO : 5 mg/mL (22.59 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.5183 mL	22.5917 mL	45.1834 mL
5 mM	0.9037 mL	4.5183 mL	9.0367 mL
10 mM	0.4518 mL	2.2592 mL	4.5183 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: ≥ 0.5 mg/mL (2.26 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 0.5 mg/mL (2.26 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CAPS, cyclohexylaminopropane sulfonic acid, is a surfactant. CAPS can be used as biological buffer (0.05 M, pH 11) for dialysis[1][2].

In Vitro

CAPS surfactant bears a single neyative charge since the amine is not ionized at high pH[1].

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

REFERENCES

[1]. Bedard P R, et al. Ion Interaction: The Energetics and Mechanism of The Competitive Behavior Between Two Similarly Charged Molecules. 1. The Effect of Ionic Strength, Acetonitrile and Surfactant Concentration[J]. Journal of Liquid Chromatography, 1985, 8(13):2417-2443.

[2]. Oberley TD, et al. The effect of the dimeric and multimeric forms of fibronectin on the adhesion and growth of primary glomerular cells. Exp Cell Res. 1983 May;145(2):265-76.

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