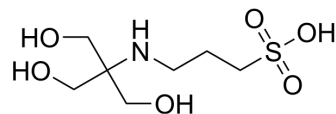


TAPS

Cat. No.:	HY-D0877		
CAS No.:	29915-38-6		
Molecular Formula:	C ₇ H ₁₇ NO ₆ S		
Molecular Weight:	243.28		
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

H₂O : 125 mg/mL (513.81 mM; Need ultrasonic)
 DMSO : 100 mg/mL (411.05 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.1105 mL	20.5525 mL	41.1049 mL
	5 mM	0.8221 mL	4.1105 mL	8.2210 mL
	10 mM	0.4110 mL	2.0552 mL	4.1105 mL

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

BIOLOGICAL ACTIVITY

Description

TAPS is a biological buffer, remain lysozyme native structure intact and prevents thermal denaturation against high temperatures. TAPS exhibits pK_a value of 8.1, while the half-maximum values of connexin channel activity is 8.5 (pH)^{[1][2]}.

REFERENCES

[1]. Pannuru P, et al. The effects of biological buffers TRIS, TAPS, TES on the stability of lysozyme. *Int J Biol Macromol.* 2018 Jun;112:720-727.

[2]. Bevans CG, et al. Regulation of connexin channels by pH. Direct action of the protonated form of taurine and other aminosulfonates. *J Biol Chem.* 1999 Feb 5;274(6):3711-9. Bevans CG, et al. Regulation of connexin channels by pH. Direct action of the protonated form of taurine and other aminosulfonates. *J Biol Chem.* 1999 Feb 5;274(6):3711-9.

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

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