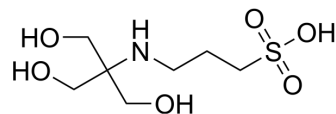


TAPS

| | | | |
|--------------------|--|-------|----------|
| 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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