

Product Data Sheet

Product Name: TAPS
Cat. No.: GC67630

Chemical Properties

Cas. No. 29915-38-6

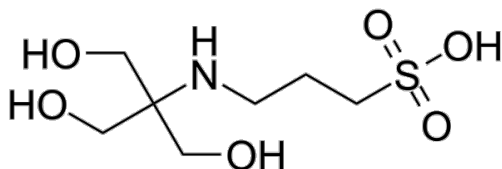
Formula $C_7H_{17}NO_6S$ M.Wt 243.28

Solubility H_2O : 125 mg/mL (513.81 mM; Need ultrasonic); DMSO : 100 mg/mL (411.05 mM; Need ultrasonic) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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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]}.

[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]. Bevens 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. Bevens CG, et al. Regulation of connexin channels by pH. Direct action of the protona

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