

## Product Data Sheet

---

Product Name: TAPS  
Cat. No.: GC67630

### Chemical Properties

Cas. No. 29915-38-6

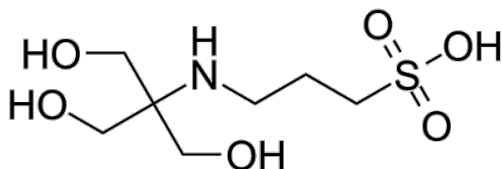
Formula  $C_7H_{17}NO_6S$  M.Wt 243.28

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.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

## Product Data Sheet

---

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)<sup>[1][2]</sup>.

[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 protona

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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