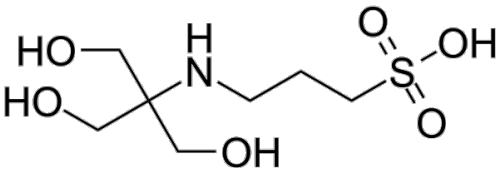
Product Data Sheet

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°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°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

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)[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]. 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.
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