

Product Data Sheet

Product Name: 3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulfonate hydrate

Cat. No.: GF32083

Chemical Properties

Cas. No. 331717-45-4

Formula $C_{32}H_{58}N_2O_7S \cdot xH_2O$ M.Wt 614.88 (anhydrous basis)

Solubility DMSO : 10.87 mg/mL (17.18 mM; ultrasonic and warming and heat to 60°C) Storage Store at RT

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.

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

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Structure



Background

CHAPS hydrate, a derivative of Cholic acid, is a zwitterionic detergent for solubilizing membrane proteins. CHAPS hydrate is used for stabilization of various protein-DNA complexes and can retain biochemical activity of proteins in solution.

[1]. Kroflic A, et al. Thermodynamic characterization of 3-[(3-cholamidopropyl)-dimethylammonium]-1-propanesulfonate (CHAPS) micellization using isothermal titration calorimetry: temperature, salt, and pH dependence. *Langmuir*. 2012 Jul 17;28(28):10363-71.

[2]. Menshikova I, et al. Nucleosomes structure and dynamics: effect of CHAPS. *Int J Biochem Mol Biol*. 2011;2(2):129-137.

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