

# CHAPS

**Catalog No: tcsc0926**



## Available Sizes

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**Size:** 1g

**Size:** 5g



## Specifications

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**CAS No:**

75621-03-3

**Formula:**

$C_{32}H_{58}N_2O_7S$

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

H<sub>2</sub>O : ≥ 46 mg/mL (74.81 mM)

**Storage Instruction:**

Powder -20°C For 3 years ; 4°C for 2 years In solvent -80°C for 6 months ; -20°C for 1 month

**Observed Molecular Weight:**

614.88

## References

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

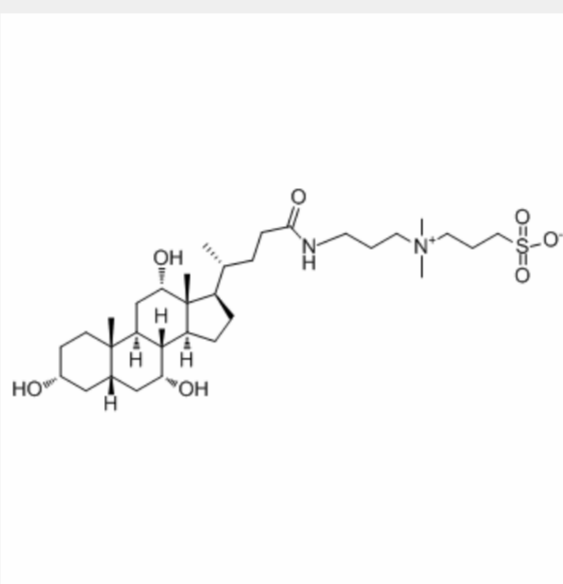
## Product Description

CHAPS is a zwitterionic nondenaturing detergent for solubilizing membrane proteins.

**Target:** CHAPS is often used as a detergent in the solubilization and purification of membrane proteins for several advantageous reasons. CHAPS detergent is non-denaturing to membrane proteins, can solubilize proteins, disaggregate protein-protein interactions and is electrically neutral. CHAPS is also useful in ion exchange chromatography and isoelectric focusing as it is zwitterionic and does not exhibit a net charge between pH 2 to 12. The critical micelle concentration of CHAPS is 6-10mM.

**In Vitro:** CHAPS (0.5 %) is able to stabilize complexes between DNA and DNA-binding factors such as AP-1, SPI, GATA-1 and  $\alpha$ -regulated factor ISGF3, and retains their biochemical activity[1].

CHAPS can prevent dissociation of mononucleosomes diluted to sub-nanomolar concentrations[1].



H<sub>2</sub>O :  $\geq$  46 mg/mL (74.81 mM)

\* " $\geq$ " means soluble, but saturation unknown.

	Solvent	Mass	1 mg	5 mg	10 mg
			Concentration		
Preparing Stock Solutions	1 mM		1.6263 mL	8.1317 mL	16.2633 mL
	5 mM		0.3253 mL	1.6263 mL	3.2527 mL
	10 mM		0.1626 mL	0.8132 mL	1.6263 mL

Please refer to the solubility information to select the appropriate solvent.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!