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DATASHEET

CHAPS

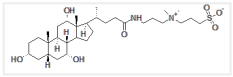
Product overview

Name	CHAPS
Cat No	HB5072
Biological description	Non-denaturing detergent which is frequently used for protein solubilization and stabilization.
Biological action	Reagent
Description	Detergent for protein solubilization/ stabilization

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	3-[(3-Cholamidopropyl)-dimethylammonio]-1-propanesulfonate
Molecular Weight	614.9
Chemical structure	
Molecular Formula	$C_{32}H_{58}N_2O_7S$
CAS Number	75621-03-3
PubChem identifier	107670
SMILES	C[C@H](CCC(=O)NCCC[N+](C)(C)CCCS(=O)(=O)[O-])[C@H]1CC[C@@H]2[C@@]1([C@H](C[C@H]3[C@H]2[C@@H](C[C@H]4[C@@]3(CC[C@H](C4)O)C)O)O)C
InChi	InChI=1S/C32H58N2O7S/c1-21(8-11-29(38)33-14-6-15-34(4,5)16-7-17-42(39,40)41)24-9-10-25-30-26(20-28(37)32(24,25)3)31(2)13-12-23(35)18-22(31)19-27(30)36/h21-28,30,35-37H,6-20H2,1-5H3,(H-,33,38,39,40,41)/t21-,22+,23-,24-,25+,26+,27-,28+,30+,31+,32-/m1/s1
InChiKey	UMCMPZBLKLEWAF-BCTGSCMUSA-N
MDL number	MFCD00012116

References

The dual role of CHAPS in the crystallization of stromelysin-3 catalytic domain

Gall AL *et al* (2003) Acta Crystallogr D Biol Crystallogr 59(Pt 3)
PubMedID 12595739

CHAPS Solubilization and Functional Reconstitution of beta-Glucan Synthase from Red Beet Root (Beta vulgaris L.) Storage Tissue

Sloan ME *et al* (1987) Plant Physiol 85(2)
PubMedID 16665729

Evaluation of sodium deoxycholate as solubilization buffer for oil palm proteomics analysis

Lau BYC *et al* (2019) PLoS One 14(8)

PubMedID 31415606

Buffers more than buffering agent: introducing a new class of stabilizers for the protein BSA

Gupta BS *et al* (2015) Phys Chem Chem Phys 17(2)
PubMedID 25415385

New pH-buffering system for media utilized during gamete and embryo manipulations for assisted reproduction

Swain JE *et al* (2009) Reprod Biomed Online 18(6)
PubMedID 19490784