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## DATASHEET

### CHAPS

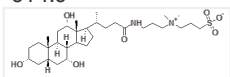
#### Product overview

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

#### Solubility & Handling

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

#### Chemical Data

|                           |                                                                                                                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chemical name</b>      | 3-[(3-Cholamidopropyl)-dimethylammonio]-1-propanesulfonate                                                                                                                                                                                                  |
| <b>Molecular Weight</b>   | 614.9                                                                                                                                                                                                                                                       |
| <b>Chemical structure</b> |                                                                                                                                                                          |
| <b>Molecular Formula</b>  | C <sub>32</sub> H <sub>58</sub> N <sub>2</sub> O <sub>7</sub> S                                                                                                                                                                                             |
| <b>CAS Number</b>         | 75621-03-3                                                                                                                                                                                                                                                  |
| <b>PubChem identifier</b> | 107670                                                                                                                                                                                                                                                      |
| <b>SMILES</b>             | <chem>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</chem>                                                                                                                |
| <b>InChi</b>              | 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 |
| <b>InChiKey</b>           | UMCMPZBLKLEWAF-BCTGSCMUSA-N                                                                                                                                                                                                                                 |
| <b>MDL number</b>         | 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)

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##### 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)

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