

# Certificate of Analysis

**Product Name:** CHAPSO

**Catalog No.:** 5825

**Batch No.:** 1

CAS Number: 82473-24-3

IUPAC Name: 3-[(3-Cholamidopropyl)dimethylammonio]-2-hydroxy-1-propanesulfonate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{32}H_{58}N_2O_8S \cdot 1\frac{1}{4}H_2O$

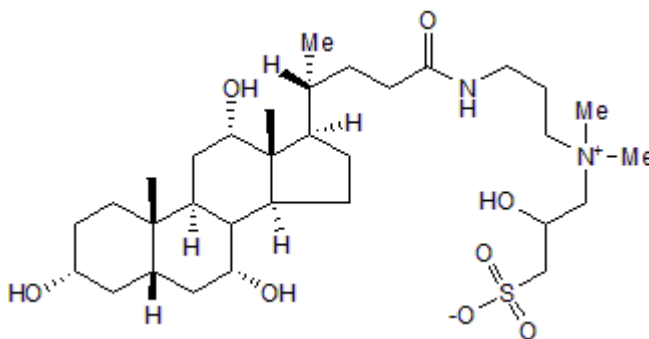
**Batch Molecular Weight:** 662.4

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**$^1H$  NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.02	9.36	4.23
Found	57.91	9.49	4.11

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

A zwitterionic nondenaturing detergent for solubilizing membrane proteins.

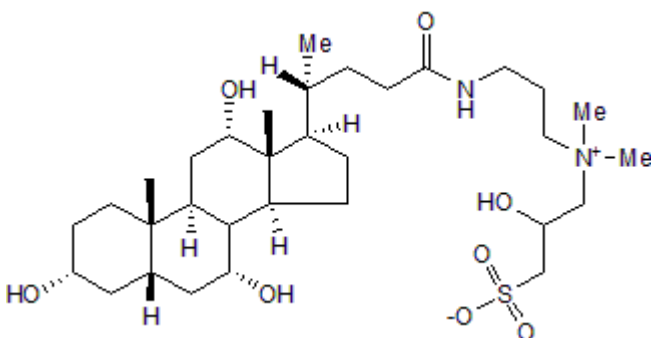
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>32</sub>H<sub>58</sub>N<sub>2</sub>O<sub>8</sub>S.1<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

Batch Molecular Weight: 662.4

Physical Appearance: White solid

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water to 100 mM

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Zhao *et al*** (2014) Detergent-dependent separation of postsynaptic density, membrane rafts and other subsynaptic structures from the synaptic plasma membrane of rat forebrain. *J.Neurochem.* **131** 147. PMID: 24985044.

**Cladera *et al*** (1997) Liposome solubilization and membrane protein reconstitution using Chaps and Chapso. *Eur.J.Biochem.* **243** 798. PMID: 9057848.

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