

# Certificate of Analysis

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**Product Name:** CHAPS

**Catalog No.:** 3172

**Batch No.:** 6

CAS Number: 75621-03-3

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

## 1. PHYSICAL AND CHEMICAL PROPERTIES

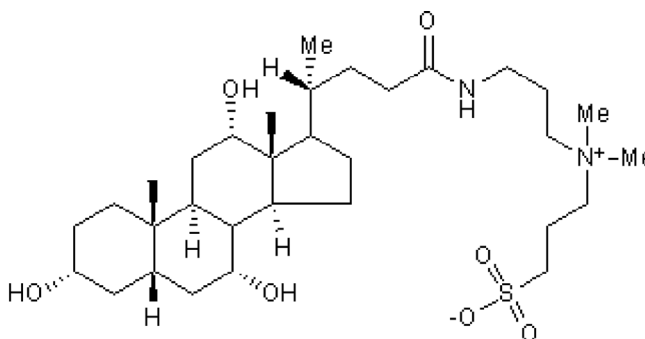
**Batch Molecular Formula:** C<sub>32</sub>H<sub>58</sub>N<sub>2</sub>O<sub>7</sub>S

**Batch Molecular Weight:** 614.88

**Physical Appearance:** White solid

**Storage:** Store at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Assay (ex N):** 99.4%

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

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CAS Number: 75621-03-3

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

**Description:**

CHAPS is a zwitterionic nondenaturing detergent for solubilizing membrane proteins.

**Physical and Chemical Properties:**

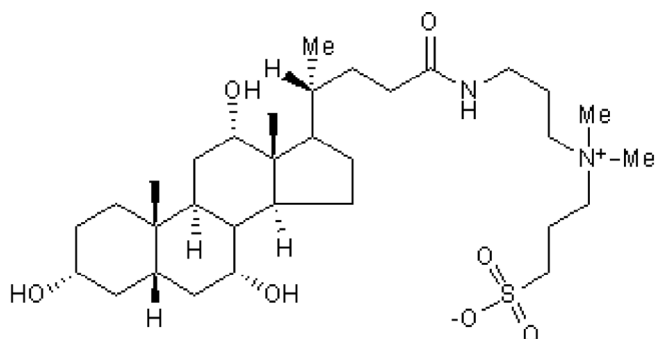
Batch Molecular Formula: C<sub>32</sub>H<sub>58</sub>N<sub>2</sub>O<sub>7</sub>S

Batch Molecular Weight: 614.88

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

**Pasquali et al** (1997) Preparative two-dimensional gel electrophoresis of membrane proteins. *Electrophoresis* **18** 2573. PMID: 9527487.

**Banerjee et al** (1995) Differential solubilization of lipids along with membrane proteins by different classes of detergents. *Chem.Phys.Lipids* **77** 65. PMID: 7586093.

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