



CHAPS ((3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulfonate))

Catalog number

C3490

Supplier

United States Biological

Non-denaturing zwitterionic detergent with cholic acid and sulfobetaine moieties, used to dissolve biological membranes, useful for protein extraction methods due to its ease of removal by dialysis or gel filtration. Low background UV absorption for protein detection.

Designed by Good, et al., and typically referred to as Good's buffer useful in cell culture media formulations. Selection of biological buffer systems should include the following criteria

exclusion by biological membranes, low absorption between 240 and 700nm, chemically stable, and stable to temperature and concentration changes.

Synonyms

(3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulfonate); N,N-Dimethyl-N-(3-sulfopropyl)-3-[[[(3 α ,5 β ,7 α ,12 α)-3,7,12-trihydroxy-24-oxocholan-24-yl]amino]-1-propanaminium Inner Salt; CHAPS

CAS Number

75621-03-3

Molecular Formula

C32H58N2O7S

Molecular Weight

614.88

Appearance

Supplied as a white to off white powder.

Purity

≥98% (typically ≥99%)

Melting Point

255-260°C

Solubility (10% aq)

Colorless, clear, complete. Soluble in DMF, hot Methanol, Water (50mg/1ml)

Loss on Drying

≤4.0%



TLC

One spot

Storage and Stability

RT short-term, -20°C long-term. Hygroscopic. Keep tightly closed and desiccated.

Formulation

Supplied as a white to off white powder.

Purity

≥98% (typically ≥99%)

Grade

Molecular Biology Grade

Storage

-20°C

MW

614.88

Formula

C₃₂H₅₈N₂O₇S

Antigen Modification

Synthetic

Reference

1. Hjelmeland, L. H., Proc. Natl. Acad. Sci. USA, 77: 6368 (1980) 2. Good, N. E., et al., Biochemistry 5:467 (1966)