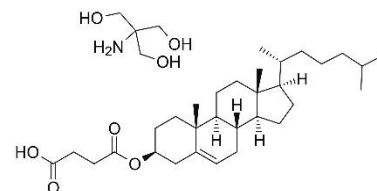


Technical Data Sheet

CHS (Cholesteryl Hemisuccinate Tris Salt)

Catalog Number: CHS01, CHS02, CHS03



Chemical Name	2-amino-2-(hydroxymethyl)propane-1,3-diol; 4-[[[(3S,8S,9S,10R,13R,14S,17R)-10,13-dimethyl-17-[(2R)-6-methylheptan-2-yl]-2,3,4,7,8,9,11,12,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-3-yl]oxy]-4-oxobutanoic acid
Physical State	White solid
CAS NO.	102601-49-0
Molecular Formula	C ₃₅ H ₆₁ NO ₇
Molecular Weight	607.86
Purity	≥ 99.0%

Product Description

CHS (Cholesterol Hemisuccinate Tris Salt) is a steroid anionic surfactant additive. The molecule has a rigid cholesterol tetracyclic core as its hydrophobic backbone and is linked by succinic acid to a negatively charged polar head group. Tris acts as the counterion to achieve water solubility, mimicking the molecular conformation of natural cholesterol. The critical micelle concentration of CHS is extremely low, and it is not suitable for use alone for membrane protein dissolution. It is usually combined with main surfactants such as LMNG (Distolife catalog number: LMN01, LMN02, LMN03) for use and is embedded inside the surfactant micelles to reconstruct the original membrane microenvironment. It can significantly enhance the thermal stability of eukaryotic membrane proteins such as G Protein-Coupled Receptors (GPCRs), inhibit protein conformational unfolding and aggregation, and retain the physiological activity of the protein.

Transportation and Storage

- Store at low temperature, keep away from moisture
- Powder: -20 °C for 3 years
- In solvent: -80 °C for 1 year
- Ship at ambient temperature

Applications

- Extraction and purification of membrane proteins
- Protein crystallization
- Structural biology research, including cryo-EM sample preparation
- Membrane-mimicking additive for GPCR studies

Notice

1. To ensure the safety and health of operators, laboratory coats and disposable gloves must be worn throughout the entire experimental procedure.
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