

ALS-1 Surfactant

<http://www.lumiprobe.com/p/als-1-surfactant>

ALS-1 (Acid-Labile Surfactant-1) is an anionic surfactant compatible with mass spectrometry (MS) and used to solubilize and unfold proteins in proteomic applications. ALS-1 significantly reduces the time of proteolytic digestion of proteins, facilitates the cleavage of proteins resistant to proteolysis, and enhances the solubility of hydrophobic peptides and proteins.

General properties

Appearance: white off paste

Molecular weight: 416.56

CAS number: 308818-13-5

Molecular formula: $C_{19}H_{37}NaO_6S$

IUPAC name: Sodium 3-[(2-methyl-2-undecyl-1,3-dioxolan-4-yl)methoxy]-1-propanesulfonate

Solubility: DMSO, water, methanol

Quality control: NMR 1H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at $-20^{\circ}C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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