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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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- Expressversand

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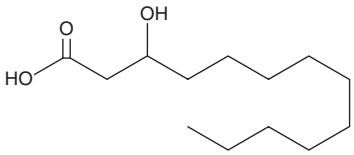
PRODUCT INFORMATION

3-hydroxy Tridecanoic Acid

Item No. 22689

CAS Registry No.: 32602-69-0
Formal Name: 3-hydroxy-tridecanoic acid
Synonym: β-hydroxy Tridecanoic Acid
MF: $C_{13}H_{26}O_3$
FW: 230.3
Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

3-hydroxy Tridecanoic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the 3-hydroxy tridecanoic acid in the solvent of choice. 3-hydroxy Tridecanoic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of 3-hydroxy tridecanoic acid in ethanol is approximately 2.5 mg/ml and approximately 20 mg/ml in DMSO and DMF.

3-hydroxy Tridecanoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 3-hydroxy tridecanoic acid should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. 3-hydroxy Tridecanoic acid has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

3-hydroxy Tridecanoic acid is a 13-carbon saturated fatty acid found in bacterial lipopolysaccharides (LPS).[1,2] It can be used as an internal standard to detect markers of microorganisms in complex samples, including 3-hydroxy fatty acids found in LPS-containing bacteria and muramic acid found in bacterial cell wall peptidoglycan.[3]

References

1. Uhlig, S., Negård, M., Heldal, K.K., *et al.* Profiling of 3-hydroxy fatty acids as environmental markers of endotoxin using liquid chromatography coupled to tandem mass spectrometry. *J. Chromatogr. A.* **1434**, 119-236 (2016).
2. Bishop, D.G., Hewett, M.J., and Knox, K.W. Occurrence of 3-hydroxytridecanoic and 3-hydroxypentadecanoic acids in the lipopolysaccharides of *Veillonella*. *Biochim Biophys. Acta*. **231(2)**, 274-276 (1971).
3. Larsson, L. and Saraf, A. Use of gas chromatography-ion trap tandem mass spectrometry for the detection and characterization of microorganisms in complex samples. *Mol. Biotechnol.* **7(3)**, (1997).

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