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Produktinformation

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- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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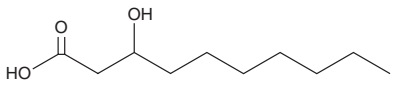
PRODUCT INFORMATION

3-hydroxy Decanoic Acid

Item No. 24613

CAS Registry No.: 14292-26-3
Formal Name: 3-hydroxy-decanoic acid
Synonyms: 3-hydroxy Capric Acid, (±)-3-hydroxy Decanoic Acid, β-hydroxy Decanoic Acid, FA 10:0;O
MF: $C_{10}H_{20}O_3$
FW: 188.3
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

3-hydroxy Decanoic acid is supplied as a solid. A stock solution may be made by dissolving the 3-hydroxy decanoic acid in the solvent of choice. 3-hydroxy Decanoic acid is soluble in organic solvents such as ethanol, methanol, and chloroform, which should be purged with an inert gas.

Description

3-hydroxy Decanoic acid is a hydroxy fatty acid and the predominant monomer in methyl-branched poly(3-hydroxyalkanoate) (PHA) polymers produced by *P. putida* CA-3.[1] It is present in LPS from the *H. pylori* strain SS1 and in the lipid A component of clinical isolates of *P. aeruginosa* isolated from patients with cystic fibrosis but not the environment or patients with other conditions.[2,3] 3-hydroxy Decanoic acid inhibits mitotic progression of *O. virens* pollens *via* impairment of plasma membrane function.[4] It also induces a reversible shape change of the membrane crenation in human erythrocytes.

References

1. O'Connor, S., Szwej, E., Nikodinovic-Runic, J., *et al.* The anti-cancer activity of a cationic anti-microbial peptide derived from monomers of polyhydroxyalkanoate. *Biomaterials* **34(11)**, 2710-2718 (2013).
2. Leker, K., Lozano-Pope, I., Bandyopadhyay, K., *et al.* Comparison of lipopolysaccharides composition of two different strains of *Helicobacter pylori*. *BMC Microbiol.* **17(1)**, 226 (2017).
3. Ernst, R.K., Moskowitz, S.M., Emerson, J.C., *et al.* Unique lipid A modifications in *Pseudomonas aeruginosa* isolated from the airways of patients with cystic fibrosis. *J. Infect. Dis.* **196(7)**, 1088-1092 (2007).
4. Kanaho, Y., Sato, T., Fuji, T., *et al.* Shape-transforming action of myrmicacin (3-hydroxydecanoic acid) and some related compounds on the membrane of intact human erythrocytes. *Chem. Pharm. Bull. (Tokyo)* **29(10)**, 3063-3066 (1981).

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