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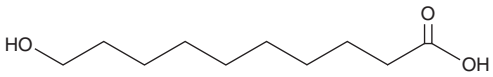
PRODUCT INFORMATION

10-hydroxy Decanoic Acid

Item No. 30458

CAS Registry No.: 1679-53-4
Synonyms: 10-hydroxy Capric Acid, FA 10:0;O, NSC 15139
MF: $C_{10}H_{20}O_3$
FW: 188.3
Purity: ≥98%
Supplied as: A crystalline 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

10-hydroxy Decanoic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the 10-hydroxy decanoic acid in the solvent of choice, which should be purged with an inert gas. 10-hydroxy Decanoic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 10-hydroxy decanoic acid in ethanol is approximately 10 mg/ml and approximately 30 mg/ml in DMSO and DMF.

10-hydroxy Decanoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 10-hydroxy decanoic acid should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. 10-hydroxy Decanoic acid has a solubility of approximately 0.12 mg/ml in a 1:7 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

10-hydroxy Decanoic acid is a hydroxy fatty acid and a major component of worker bee mandibular blend pheromones that has been found in royal jelly.[1,2] It reduces LPS-induced nitric oxide production in RAW 264.7 cells when used at a concentration of 5 mM.[2]

References

1. Plettner, E., Sutherland, G.R., Slessor, K.N., *et al.* Why not be a queen? Regioselectivity in mandibular secretions of honeybee castes. *J. Chem. Ecol.* **21(7)**, 1017-1029 (1995).
2. Chen, Y.-F., Wang, K., Zhang, Y.-Z., *et al. In vitro* anti-inflammatory effects of three fatty acids from royal jelly. *Mediators Inflamm.* 3583684 (2016).

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