threo-9,10-Dihydroxyhexadecanoic Biochemical

threo-9,10-Dihydroxyhexadecanoic Acid

CATALOG #
AAA60459

PRODUCT SYNONYMS

threo-9; 10-Dihydroxyhexadecanoic; 10-Dihydroxyhexadecanoic Acid; 9; 10-Dihydroxypalmitic acid; (+/-)-threo-9; 10-Dihydroxyhexadecanoic acid; 10-Dihydroxyhexadecanoic biochemical

PRODUCT SPECIFICATIONS

Purity/Purification	>99%
Form/Format	Crystalline Solid
CAS Number	2027-46-5
Molecular Formula	$C_{16}HO_4$
M.P.	88.5°-89.5°C
Identity	The identity of the material is based on its mode of preparation and on the mass specrum of methyl ester/trimethylsilyl derivative showing e.g. strong ions at m/z 259 (Me_3SiO^+=CH-$(CH_2)_7$-$COOCH_3$ and 187 (Me_3SiO^+=CH-$(CH_2)_5$-CH_3) due to cleavage at the C-9/C-10 bond (attached). The stereochemistry follows from the synthesis used involving trans-hydroxylation of a cis olefin.
Purity Note	The purity was determined by GC-MS analysis of the methyl ester/trimethylsilyl derivative using a capillary column of 5% phenylmethylsiloxane (12 m, 0.33 um film thickness, carrier gas: helium). The temperature was raised from 80°C to 300°C at a rate of 10°C/min (GC-MS analysis attached).
Preparation and Storage	Store at 2-8°C.

ADDITIONAL INFORMATION

Product Categories/Family for threo-9,10-Dihydroxyhexadecanoic biochemical	100 Fatty Acids; 130 FA with Hydroxy (OH)

NCBI AND UNIPROT INFORMATION

Molecular Weight	288.42

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/biochemical/threo-910-dihydroxyhexadecanoic/60459