Product Data Sheet

Product Name: 3-Hydroxycapric acid
Cat. No.: GC33383

Chemical Properties

Cas. No.	14292-26-3		
SMILES	CCCCCCCC(O)CC(O)=O		
Formula	$C_{10}H_{20}O_3$	M.Wt	188.26
Solubility	Chloroform: Soluble,Ethanol: Soluble,Methanol: Soluble	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	3-Hydroxycapric acid		

Background

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. [Matreya, LLC. Catalog No. 1727]

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 polyhydroxyalkanoateBiomaterials34(11)2710-2718(2013) 2.Leker, K., Lozano-Pope, I., Bandyopadhyay, K., et al.Comparison of lipopolysaccharides composition of two different strains of Helicobacter pyloriBMC Microbiol.17(1)226(2017) 3.Ernst, R.K., Moskowitz, S.M., Emerson, J.C., et al.Unique lipid a modifications in Pseudomonas aeruginosa

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isolated from the airways of patients with cystic fibrosisJ. 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 erythrocytesChem. Pharm. Bull. (Tokyo)29(10)3063-3066(1981)

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