3-Hydroxyoctanoic acid

MedChemExpress

Cat. No.:	HY-113058				
CAS No.:	14292-27-4				
Molecular Formula:	C ₈ H ₁₆ O ₃				
Molecular Weight:	160.21				
Target:	Biochemical Assay Reagents				
Pathway:	Others				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

Preparing Stock Solutions Please refer to the s	Solvent Mass Concentration	1 mg	5 mg	10 mg		
	1 mM	6.2418 mL	31.2090 mL	62.4181 mL		
		5 mM	1.2484 mL	6.2418 mL	12.4836 mL	
		10 mM	0.6242 mL	3.1209 mL	6.2418 mL	
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.				

BIOLOGICAL ACTIV	
Description	3-Hydroxyoctanoic acid is a hydroxylated fatty acid that has been found in the LPS of Pseudomonas aeruginosa and in methyl-branched poly(3-hydroxyalkanoate) (PHA) polymers produced by Pseudomonas oleophores. It is an agonist of the orphan receptor GPR109B, increasing intracellular calcium in human neutrophils endogenously expressing GPR109B. 3- Hydroxycaprylic acid prevents lipolysis in human adipocytes and is upregulated in human plasma in response to a ketogenic diet. Plasma levels of 3-hydroxyoctanoic acid were also increased 3.41-fold in human male runners exhausted on a treadmill and in a mouse model of autism spectrum disorder (ASD) fed a high-glycemic diet.

Caution: Product has not been fully validated for medical applications. For research use only.

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Product Data Sheet

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