

Product Data Sheet

Product Name: 3-hydroxy Octanoic Acid

Cat. No.: GC18311

Chemical Properties

Cas. No. 14292-27-4

Chemical Name 3-hydroxy-octanoic acid

SMILES OC(CC(O)CCCC)=O

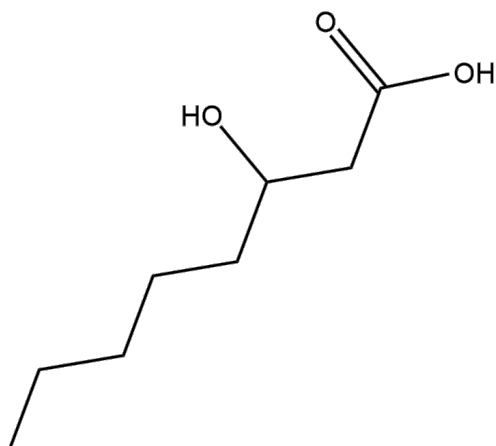
Formula $C_8H_{16}O_3$ M.Wt 160.2

Solubility DMSO : 42.5 mg/mL (265.28 mM; ultrasonic and warming and heat to 60°C) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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



Background

3-hydroxy Octanoic acid is a hydroxylated fatty acid that has been found in LPS from *P. aeruginosa* and the methyl-branched poly(3-hydroxyalkanoate) (PHA) polymers produced by *P. oleovorans*. It is an agonist of the orphan receptor GPR109B, increasing intracellular calcium in human neutrophils

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

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which endogenously express GPR109B. 3-hydroxy Octanoic acid prevents lipolysis of human adipocytes and is upregulated in human plasma in response to a ketogenic diet. Plasma levels of 3-hydroxy Octanoic acid also increase 3.41-fold in human male runners following a treadmill run to exhaustion as well as in a mouse model of autism spectrum disorder (ASD) fed a high-glycemic diet.

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