



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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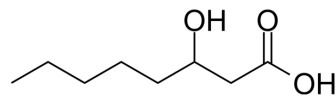
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3-Hydroxyoctanoic acid

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

In Vitro

DMSO : 42.5 mg/mL (265.28 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		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 solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 4.25 mg/mL (26.53 mM); Clear solution

BIOLOGICAL ACTIVITY

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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