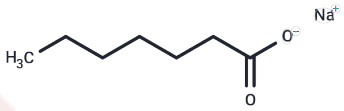
Data Sheet (Cat.No.TSH-00010)

TargetMol

Heptanoate sodium

Chemical Properties



CAS No. : 10051-45-3

Formula: C7H13NaO2

Molecular Weight: 152.17

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Heptanoic acid sodium is the sodium salt of Heptanoate.The C(5) ketogenicity of Heptanoate is much lower than the C(4) ketogenicity of octanoate, and it can inhibit the osteoporosis and gluconeogenesis of Heptanoate.
Targets(IC50)	Others
In vivo	Heptanoic acid sodium (0.5% in diet, 90 days) significantly improved feed efficiency, growth hormone levels, and swimming performance in Sparus aurata. It also upregulated hepatic genes related to fatty acid oxidation (e.g., cpt1a, acox1), suggesting enhanced energy metabolism[1].

Solubility Information

Solubility	H2O: 80 mg/mL (525.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.5716 mL	32.858 mL	65.716 mL
5 mM	1.3143 mL	6.5716 mL	13.1432 mL
10 mM	0.6572 mL	3.2858 mL	6.5716 mL
50 mM	0.1314 mL	0.6572 mL	1.3143 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Martos-Sitcha, et al. (2018). Dietary sodium heptanoate helps to improve feed efficiency, growth hormone status and swimming performance in gilthead sea bream (Sparus aurata). Aquaculture Nutrition, 24(6), 1638–1651.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481