

2-Ethylpentanoic acid

Chemical Properties

CAS No. :	20225-24-5
Formula:	C7H14O2
Molecular Weight:	130.185
Storage:	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	2-Ethylpentanoic acid is a biologically active reagent that can be used in biochemical experiments.
Targets(IC50)	Others
In vivo	In male mice, intraperitoneal injection of 2-Ethylpentanoic acid (400mg/kg/day for 5 days) induces weight loss, glutathione depletion, and elevated oxidative stress markers (e.g., protein carbonyls and ROS), indicating pronounced oxidative toxicity in vivo[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.6811 mL	38.4054 mL	76.8108 mL
5 mM	1.5362 mL	7.6811 mL	15.3622 mL
10 mM	0.7681 mL	3.8405 mL	7.6811 mL
50 mM	0.1536 mL	0.7681 mL	1.5362 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

Brotzmann K, Escher SE, Walker P, Braunbeck T. Potential of the zebrafish (Danio rerio) embryo test to discriminate between chemicals of similar molecular structure-a study with valproic acid and 14 of its analogues. Arch Toxicol. 2022 Nov;96(11):3033-3051.

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