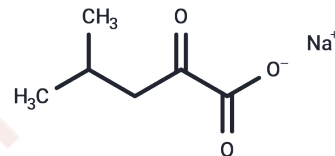


## 4-methyl-2-Oxovalerate sodium salt

## Chemical Properties

CAS No. :	4502-00-5
Formula:	C <sub>6</sub> H <sub>9</sub> NaO <sub>3</sub>
Molecular Weight:	152.12
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	4-methyl-2-Oxovalerate sodium salt is a product generated from leucine catalyzed by transaminase and promotes insulin secretion. It can be oxidatively degraded into acetyl-CoA and acetoacetic acid, or regenerate leucine via transamination with glutamate while producing $\alpha$ -ketoglutarate.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL (65.74 mM), Sonication is recommended. Ethanol: 5 mg/mL (32.87 mM), Sonication is recommended. H <sub>2</sub> O: 40 mg/mL (262.95 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.5738 mL	32.8688 mL	65.7376 mL
5 mM	1.3148 mL	6.5738 mL	13.1475 mL
10 mM	0.6574 mL	3.2869 mL	6.5738 mL
50 mM	0.1315 mL	0.6574 mL	1.3148 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

Mary E Rabaglia, et al. Alpha-Ketoisocaproate-induced hypersecretion of insulin by islets from diabetes-susceptible mice. Am J Physiol Endocrinol Metab. 2005 Aug;289(2):E218-24.

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