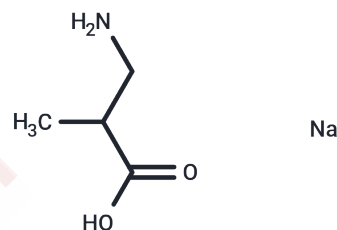


3-Aminoisobutyric Acid sodium

Chemical Properties

CAS No. :	84796-61-2
Formula:	C ₄ H ₈ NO ₂ ?Na
Molecular Weight:	125.1
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	3-Aminoisobutyric acid, a non-protein amino acid resultant from thymine catabolism, plays a significant role in metabolic activities. At a 5 μ M concentration, it triggers browning in primary adipocytes, notably elevating uncoupling protein 1 (UCP-1) and CIDEA expression. Additionally, it boosts PPAR α expression in both primary adipocytes and mouse inguinal white adipose tissue (WAT) in vivo, alongside enhancing β -oxidation in hepatocytes. Its plasma levels surge post-exercise in mice, and its administration at 100 mg/kg daily curtails weight gain and body fat without diminishing food consumption or hiking energy output, whilst ameliorating glucose tolerance. Notably, 3-aminoisobutyric acid concentrations are heightened in individuals with β -ureidopropionase deficiency, a genetic flaw impairing pyrimidine degradation, affecting plasma, urine, and cerebrospinal fluid.
Targets(IC50)	Others,Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.9936 mL	39.968 mL	79.9361 mL
5 mM	1.5987 mL	7.9936 mL	15.9872 mL
10 mM	0.7994 mL	3.9968 mL	7.9936 mL
50 mM	0.1599 mL	0.7994 mL	1.5987 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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