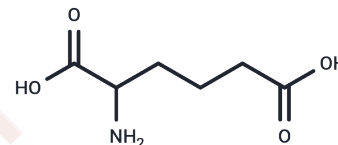


Amino adipic acid

Chemical Properties

CAS No. :	542-32-5
Formula:	C ₆ H ₁₁ NO ₄
Molecular Weight:	161.16
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	Amino adipic acid (DL-2-Amino adipic acid) (2-amino adipate) is a metabolite in the principal biochemical pathway of lysine. It is an intermediate in the metabolism (i.e. breakdown or degradation) of lysine and saccharopine. It antagonizes neuroexcitatory activity modulated by the glutamate receptor N-methyl-D-aspartate (NMDA). Amino adipic acid has also been shown to inhibit the production of kynurenic acid, a broad spectrum excitatory amino acid receptor antagonist, in brain tissue slices.
Targets(IC50)	Calcium Channel, NOD-like Receptor (NLR), Endogenous Metabolite, ROS

Solubility Information

Solubility	DMSO: Insoluble, H ₂ O: 10 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	6.205 mL	31.0251 mL	62.0501 mL
5 mM	1.241 mL	6.205 mL	12.410 mL
10 mM	0.6205 mL	3.1025 mL	6.205 mL
50 mM	0.1241 mL	0.6205 mL	1.241 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

Wang TJ, et al. 2-Aminoadipic acid is a biomarker for diabetes risk. J Clin Invest. 2013 Oct;123(10):4309-17.

Wang X, et al. α -Aminoadipic acid protects against retinal disruption through attenuating Müller cell gliosis in a rat model of acute ocular hypertension. Drug Des Devel Ther. 2016 Oct 20;10:3449-3457.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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