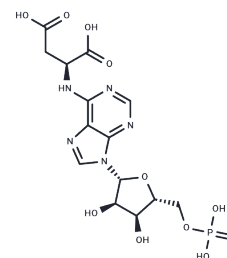


Adenylosuccinic acid

Chemical Properties

CAS No. :	19046-78-7
Formula:	C ₁₄ H ₁₈ N ₅ O ₁₁ P
Molecular Weight:	463.29
Storage:	Store at low temperature 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	Adenylosuccinic acid (Adenylosuccinate) is a purine nucleotide cycle metabolite and a novel inducer of the Nrf2 cell protector. It can be used for research on Duchenne muscular dystrophy (DMD).
Targets(IC50)	Endogenous Metabolite
In vivo	Adenylosuccinic acid (oral administration; 3-3000 µg/mL; 6 weeks) significantly alleviated the pathologic features of DMD (Duchenne muscular dystrophy) in mice. Its effects were demonstrated by a reduction in the proportion of central nuclear fibers in the mdx tibialis anterior muscle, a reduction in lipid accumulation, an inhibition of connective tissue infiltration, and a reduction in Ca ²⁺ content. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1585 mL	10.7924 mL	21.5848 mL
5 mM	0.4317 mL	2.1585 mL	4.317 mL
10 mM	0.2158 mL	1.0792 mL	2.1585 mL
50 mM	0.0432 mL	0.2158 mL	0.4317 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

Timpani CA, et al. Adenylosuccinic acid therapy ameliorates murine Duchenne Muscular Dystrophy. *Sci Rep.* 2020 Jan 24;10(1):1125.

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