
Product Data Sheet

Product Name: Adenylosuccinic acid tetraammonium

Cat. No.: GC64916

Chemical Properties

Cas. No.

Formula C₁₄H₃₀N₉O₁₁P

M.Wt 531.42

Solubility Water : 200 mg/mL (376.35 mM; Need ultrasonic)

Storage -20°C, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Adenylosuccinic acid tetraammonium (Adenylosuccinate; Aspartyl adenylate) is a purine ribonucleoside monophosphate and plays a role in nucleotide cycle metabolite.

Adenylosuccinic acid tetraammonium can be converted into fumaric acid through adenylosuccinate lyase. Adenylosuccinic acid tetraammonium has the potential for the study of duchenne muscular dystrophy(DMD)^[1].

Adenylosuccinic acid tetraammonium (oral administration; 3-3000 µg/mL; 6 weeks) significantly improves the features of murine DMD, it decreases the number of centronucleated fibres, lipid accumulation, connective tissue infiltration and Ca²⁺ content of mdx tibialis anterior^[1].

References:

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

Caution: Product has not been fully validated for medical applications. For research use only.

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