

Product Data Sheet

Product Name: Nonanoyl-CoA sodium

Cat. No.: GC81847

Chemical Properties

Cas. No.

Formula $C_{30}H_{52}N_7O_{17}P_3S \cdot xNa$ M.Wt 907.76

Solubility Storage Store at -20°C

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

Nonanoyl-CoA sodium (Pelargonoyl-CoA sodium; S-Nonanoate coenzyme A sodium; Nonanoyl-coenzyme A sodium) is a medium-chain fatty acyl-CoA and serves as a substrate of ACOT9. Nonanoyl-CoA sodium can be hydrolyzed by ACOT9 to release free nonanoic acid and coenzyme A [1].

In Vitro, Recombinant mouse ACOT9 exhibits lower catalytic efficiency in hydrolyzing Nonanoyl-CoA sodium compared to shorter and longer straight-chain saturated acyl-CoA substrates^[1].

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

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References:

[1]. Tillander V, et al. Acyl-CoA thioesterase 9 (ACOT9) in mouse may provide a novel link between fatty acid and amino acid metabolism in mitochondria. Cellular and molecular life sciences: CMLS. 2014 Mar;71(5):933-48.

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