
Product Data Sheet

Product Name: Hexanoyl coenzyme A trilithium

Cat. No.: GC67642

Chemical Properties

Cas. No. 103476-19-3

Formula $C_{27}H_{46}Li_3N_7O_{17}P_3S$

M.Wt 886.5

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

Hexanoyl coenzyme A trilithium is a hexanoyl-based medium-chain fatty acyl coenzyme A that is present in all organisms. Hexanoyl coenzyme A trilithium can be used as a precursor for cannabinoid biosynthesis and acts as a competitive inhibitor of medium-chain acyl coenzyme A dehydrogenase (MCAD)^{[1][2]}.

[1]. Jake M Stout, et al. The hexanoyl-CoA precursor for cannabinoid biosynthesis is formed by an acyl-activating enzyme in Cannabis sativa trichomes. Plant J. 2012 Aug;71(3):353-65.

[2]. K E Niezen-Koning, et al. Measurement of short-chain acyl-CoA dehydrogenase (SCAD) in cultured skin fibroblasts with hexanoyl-CoA as a competitive inhibitor to eliminate the contribution of medium-chain acyl-CoA dehydrogenase. Clin Chim Acta. 1994 Sep;229

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA