

Product Data Sheet

Product Name: Propionyl CoA-d 5 sodium

Cat. No.: GC80505

Chemical Properties

Cas. No.

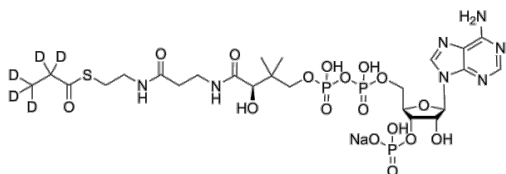
Formula $C_{24}H_{34}D_5N_7NaO_{17}P_3S$ M.Wt 850.61

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

Propionyl CoA-d 5 sodium is the deuterium labeled Propionyl CoA. Propionyl CoA serves as a common intermediate in the catabolic pathways of 1,2-propanediol and propionate in *Salmonella enterica* serovar Typhimurium LT2, and also functions as a precursor for 2-methylcitrate. Propionyl CoA is utilized as a substrate for the 2-methylcitrate synthase (PrpC) enzyme to synthesize 2-methylcitrate [1].

In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration

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

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has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs.

References:

[1]. Palacios S, et al. Propionyl coenzyme A is a common intermediate in the 1,2-propanediol and propionate catabolic pathways needed for expression of the prpBCDE operon during growth of *Salmonella enterica* on 1,2-propanediol. *J Bacteriol.* 2003;185(9):2802-2810.

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