Data Sheet (Cat.No.T37249)

TargetMol

Methylmalonyl-Coenzyme A (sodium salt)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Methylmalonyl coenzyme A (methylmalonyl-CoA) is an intermediate in multiple metabolic pathways in bacteria and eukaryotes.1,2,3It is an intermediate in carbon assimilation in certain bacteria and carbon fixation in plants.1,2Methylmalonyl-CoA is converted to succinyl-CoA by methylmalonyl-CoA mutase with vitamin B12as a coenzyme.3A deficiency in vitamin B12leads to a build-up of methylmalonyl-CoA.4
Targets(IC50)	Others

Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Reference

Anthony, C.How half a century of research was required to understand bacterial growth on C1 and C2 compounds; the story of the serine cycle and the ethylmalonyl-CoA pathwaySci. Prog.94(Pt 2)109-137(2011)

Tabita, F.R.The hydroxypropionate pathway of CO2 fixation: Fait accompliProc. Natl. Acad. Sci. U.S.A.106(50) 21015-21016(2009)

Medicine, I.o.Vitamin B12Dietary reference intakes for thiamin, riboflavin, niacin, vitamin B6, folate, vitamin B12, pantothenic acid, biotin, and choline306-356(1998)

Cardinale, G.J., Carty, T.J., and Abeles, R.H.Effect of methylmalonyl coenzyme A, a metabolite which accumulates in vitamin B12 deficiency, on fatty acid synthesisJ. Biol. Chem.245(15)3771-3775(1970)

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481