

Product Data Sheet

Product Name: Isopentenyl Pyrophosphate (ammonium salt)

Cat. No.: GC49432

Chemical Properties

Cas. No. N/A

SMILES [O-]P(OP([O-])(OCCC(C)=C)=O)([O-])=O.[NH4+].[NH4+].[NH4+]

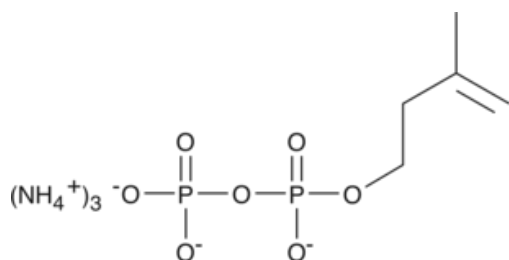
Formula C5H9O7P2.3NH4 M.Wt 297.2

Solubility Methanol: soluble Storage -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

Isopentenyl pyrophosphate (IPP) is a precursor in the biosynthesis of isoprenoids.¹ It is formed from acetyl-CoA via the mevalonate pathway, and it can be isomerized to dimethylallyl disphosphate by IPP isomerase. IPP can also be formed from pyruvate and glyceraldehyde-3-phosphate via the nonmevalonate pathway.

1. Chatzivasileiou, A.O., Ward, V., Edgar, S.M., et al. Two-step pathway for isoprenoid synthesis Proc. Natl. Acad. Sci. USA 116(2)506-511 (2019)

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