

Product Data Sheet

Product Name: 3'-Dephosphocoenzyme A

Cat. No.: GC45332

Chemical Properties

Cas. No. 3633-59-8

SMILES O[C@H]1[C@@H](O)[C@H](N2C=NC3=C2N=CN=C3N)O[C@@H]1COP(OP(OCC(C)C)[C@@H](O)C(NCCC(NCCS)=O)=O)(O)=O)(O)=O

Formula C₂₁H₃₅N₇O₁₃P₂S

M.Wt 687.6

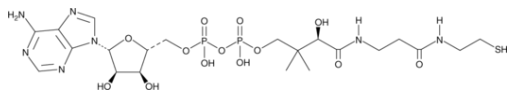
Solubility Water: 50 mg/ml

Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

3'-Dephosphocoenzyme A is an intermediate in the biosynthesis of coenzyme A from pantothenic acid. It is phosphorylated by CoA synthase in humans to form CoA. 3'-Dephosphocoenzyme A can be used as a transcription initiator in the synthesis of CoA-RNA by in vitro transcription.

References

- Leonardi, R., Zhang, Y.M., Rock, C.O., et al. Coenzyme A: Back in action. Prog. Lipid Res. 44(2-3), 125-153 (2005).
- Huang, F. Efficient incorporation of CoA, NAD and FAD into RNA by in vitro transcription. Nucleic Acids Res. 31(3), e8 (2003).
- Sapkota, K., and Huang, F. Efficient one-pot enzymatic synthesis of dephospho coenzyme A. Bioorg. Chem. 76, 23-27 (2018).

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

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