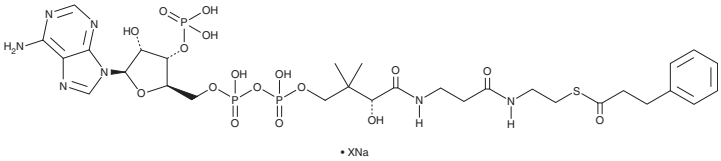
PRODUCT INFORMATION

3-Phenylpropanoyl-Coenzyme A (sodium salt)

Item No. 39998



Formal Name: S-benzenepropanoate coenzyme A, sodium salt
Synonyms: 3-Phenylpropanoyl-CoA, 3-Phenylpropionyl-CoA, 3-Phenylpropionyl-Coenzyme A
MF: $C_{30}H_{44}N_7O_{17}P_3S \bullet XNa$
FW: 899.7
Purity: ≥90%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

3-Phenylpropanoyl-coenzyme A (3-phenylpropanoyl-CoA) is supplied as a solid. A stock solution may be made by dissolving the 3-phenylpropanoyl-CoA in water. We do not recommend storing the aqueous solution for more than one day.

Description

3-Phenylpropanoyl-CoA is a derivative of CoA (Item Nos. 16147 | 21499 | 21722) that contains the medium-chain and phenyl-substituted fatty acid 3-phenylpropanoic acid.[1] It has been used as an enzymatic substrate in potential screening assays for medium-chain acyl-CoA dehydrogenase (MCAD) deficiency, an inborn error of fatty acid metabolism characterized by hypoketotic hypoglycemia, medium-chain dicarboxylic aciduria, and intolerance to fasting, in newborn-derived primary fibroblasts.

Reference

1. Derks, T.G.J., Boer, T.S., van Assen, A., *et al.* Neonatal screening for medium-chain acyl-CoA dehydrogenase (MCAD) deficiency in The Netherlands: The importance of enzyme analysis to ascertain true MCAD deficiency. *J. Inherit. Metab. Dis.* **31(1),** 88-96 (2008).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM