

Coenzyme A, free acid

Cat. No. NATE-0145

Lot. No. (See product label)

Introduction

Description

Coenzyme A (CoA, CoASH, or HSCoA) is a coenzyme, notable for its role in the synthesis and oxidation of fatty acids, and the oxidation of pyruvate in the citric acid cycle. All genomes sequenced to date encode enzymes that use coenzyme A as a substrate, and around 4% of cellular enzymes use it (or a thioester, such as acetyl-CoA) as a substrate. In humans, CoA biosynthesis requires cysteine, pantothenate, and adenosine triphosphate (ATP).

Synonyms

Coenzyme A; CoA; Coenzyme A, free acid; 85-61-0; CoASH; HSCoA

Product Information

CAS No.

85-61-0

Molecular Weight

767.53 (as anhydrous free acid) 803.56 (CoA.2H₂O)

Purity

> 75% when determined by enzymatic analysis with phosphotransacetylase at pH 7.5

Structure

C₂₁H₃₆N₇O₁₆P₃S

Specificity

Water content: < 8% by Karl Fischer

Storage and Shipping Information

Storage

Keep tightly stoppered in the dark below 5°C. For Prolonged storage, keep below-20°C.