

3-hydroxypropionyl-CoA synthase

Cat. No. EXWM-5694

Lot. No. (See product label)

Introduction

Description

Catalyses a step in the 3-hydroxypropanoate/4-hydroxybutanoate cycle, an autotrophic CO₂ fixation pathway found in some thermoacidophilic archaea. The enzymes from *Metallosphaera sedula* and *Sulfolobus tokodaii* can also use propionate, acrylate, acetate, and butanoate as substrates, and are thus different from EC 6.2.1.17 (propionate-CoA ligase), which does not accept acetate or butanoate.

Synonyms

3-hydroxypropionyl-CoA synthetase (AMP-forming); 3-hydroxypropionate-CoA ligase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 6.2.1.36

Reaction

3-hydroxypropanoate + ATP + CoA = 3-hydroxypropanoyl-CoA + AMP + diphosphate

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.