Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.