

3-hydroxypropionate dehydrogenase (NADP+)

Cat. No. EXWM-0207

Lot. No. (See product label)

Introduction

Description Catalyses the reduction of malonate semialdehyde to 3-hydroxypropanoate, a key

step in the 3-hydroxypropanoate and the 3-hydroxypropanoate/4-

hydroxybutanoate cycles, autotrophic CO2 fixation pathways found in some green non-sulfur phototrophic bacteria and archaea, respectively. The enzyme from Chloroflexus aurantiacus is bifunctional, and also catalyses the upstream reaction in the pathway, EC 1.2.1.75. Different from EC 1.1.1.59 [3-hydroxypropionate

dehydrogenase (NAD+)] by cofactor preference.

Synonyms 3-hydroxypropanoate dehydrogenase (NADP+); 3-hydroxypropionate:NADP+

oxidoreductase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.1.1.298

Reaction 3-hydroxypropanoate + NADP+ = malonate semialdehyde + NADPH + H+

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

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

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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