

4-hydroxythreonine-4-phosphate dehydrogenase

Cat. No. EXWM-0168

Lot. No. (See product label)

Introduction

Description The product of the reaction undergoes decarboxylation to give 3-amino-2-oxopropyl phosphate. The

enzyme is part of the biosynthesis pathway of the coenzyme pyridoxal 5'-phosphate found in anaerobic

bacteria.

Synonyms NAD+-dependent threonine 4-phosphate dehydrogenase; L-threonine 4-phosphate dehydrogenase; 4-

(phosphohydroxy)-L-threonine dehydrogenase; PdxA; 4-(phosphonooxy)-L-threonine:NAD+

oxidoreductase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.1.1.262

CAS No. 230310-36-8

Reaction 4-phosphonooxy-L-threonine + NAD+ = 3-amino-2-oxopropyl phosphate + CO2 + NADH + H+ (overall

reaction); (1a) 4-phosphonooxy-L-threonine + NAD+ = (2S)-2-amino-3-oxo-4-phosphonooxybutanoate + NADH + H+; (1b) (2S)-2-amino-3-oxo-4-phosphonooxybutanoate = 3-amino-2-oxopropyl phosphate + CO2

(spontaneous)

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 \sim -80 °C.

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