Creative Enzymes®

ketol-acid reductoisomerase (NADP+)

Cat. No. EXWM-0370

Lot. No. (See product label)

Introduction

Description Also catalyses the reduction of 2-ethyl-2-hydroxy-3-oxobutanoate to 2,3-dihydroxy-3-methylpentanoate. The enzyme, found in many bacteria and archaea, is specific for NADPH (cf. EC 1.1.1.382, ketol-acid reductoisomerase (NAD+) and EC 1.1.1.383, ketol-acid reductoisomerase [NAD(P)+]).

Synonyms dihydroxyisovalerate dehydrogenase (isomerizing); acetohydroxy acid isomeroreductase; ketol acid reductoisomerase; α-keto-β-hydroxylacyl reductoisomerase; 2-hydroxy-3-keto acid reductoisomerase; acetohydroxy acid reductoisomerase; acetolactate reductoisomerase; dihydroxyisovalerate (isomerizing) dehydrogenase; isomeroreductase; reductoisomerase; ketol-acid reductoisomerase; (R)-2,3-dihydroxy-3-methylbutanoate:NADP+ oxidoreductase (isomerizing)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.1.1.86

CAS No. 9075-02-9

Reaction (2R)-2,3-dihydroxy-3-methylbutanoate + NADP+ = (2S)-2-hydroxy-2-methyl-3-oxobutanoate + 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

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