

glutamate-5-semialdehyde dehydrogenase

Cat. No. EXWM-1145

Lot. No. (See product label)

Introduction

Description

This enzyme belongs to the family of oxidoreductases, specifically those acting on the aldehyde or oxo group of donor with NAD⁺ or NADP⁺ as acceptor. The systematic name of this enzyme class is L-glutamate-5-semialdehyde:NADP⁺ 5-oxidoreductase (phosphorylating). Other names in common use include beta-glutamylphosphate reductase, gamma-glutamyl phosphate reductase, beta-glutamylphosphate reductase, glutamate semialdehyde dehydrogenase, and glutamate-gamma-semialdehyde dehydrogenase. This enzyme participates in urea cycle and metabolism of amino groups.

Synonyms

β-glutamylphosphate reductase; γ-glutamyl phosphate reductase; β-glutamylphosphate reductase; glutamate semialdehyde dehydrogenase; glutamate-γ-semialdehyde dehydrogenase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.2.1.41

CAS No.

54596-29-1

Reaction

L-glutamate 5-semialdehyde + phosphate + NADP⁺ = L-glutamyl 5-phosphate + 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.