Creative Enzymes®

glutamyl-tRNA reductase

Cat. No. EXWM-1172

Lot. No. (See product label)

Introduction

Description	This enzyme forms part of the pathway for the biosynthesis of 5-aminolevulinate from glutamate, known as theC5 pathway.The route shown in the diagram is used in most eubacteria, and in all archaebacteria, algae and plants. However, in the α-proteobacteria, EC 2.3.1.37, 5-aminolevulinate synthase, is used in an alternative route to produce the product 5-aminolevulinate from succinyl-CoA and glycine. This route is found in the mitochondria of fungi and animals, organelles that are considered to be derived from an endosymbiotic α-proteobacterium. Although higher plants do not possess EC 2.3.1.37, the protistan Euglena gracilis possesses both the C5 pathway and EC 2.3.1.37.

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.2.1.70
CAS No.	119940-26-0
Reaction	L-glutamate 1-semialdehyde + NADP+ + tRNAGlu = L-glutamyl-tRNAGlu + 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 ℃.