

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 the C5 pathway. The route shown in the diagram is used in most eubacteria, and in all archaeobacteria, 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⁺ + tRNA^{Glu} = L-glutamyl-tRNA^{Glu} + 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.