Creative Enzymes®

1-piperideine-2-carboxylate/1-pyrroline-2-carboxylate reductase [NAD(P)H]

Cat. No. EXWM-1493

Lot. No. (See product label)

Introduction

Description	The enzymes, characterized from the bacterium Azospirillum brasilense, is involved in trans-3-hydroxy-L-proline metabolism. In contrast to EC 1.5.1.21, 1-piperideine-2-carboxylate/1-pyrroline-2-carboxylate reductase (NADPH), which is specific for NADPH, this enzyme shows similar activity with NADPH and NADH.
Synonyms	Δ1-pyrroline-2-carboxylate reductase; DELTA1-pyrroline-2-carboxylate reductase; DELTA1-piperideine-2-carboxylate/1-pyrroline-2-carboxylate reductase (ambiguous); AbLhpI; pyrroline-2-carboxylate reductase; L-proline:NAD(P)+ 2-oxidoreductase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.5.1.1
CAS No.	9029-16-7
Reaction	(1) L-pipecolate + NAD(P)+ = 1-piperideine-2-carboxylate + NAD(P)H + H+; (2) L-proline + NAD(P)+ = 1-pyrroline-2-carboxylate + NAD(P)H + 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 ℃.