

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); AbLhpl; 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.