

saccharopine dehydrogenase (NADP+, L-glutamate-forming)

Cat. No. EXWM-1494

Lot. No. (See product label)

Introduction

Description

This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-NH group of donors with NAD⁺ or NADP⁺ as acceptor. This enzyme participates in lysine biosynthesis and lysine degradation.

Synonyms

saccharopine (nicotinamide adenine dinucleotide phosphate, glutamate-forming) dehydrogenase; aminoadipic semialdehyde-glutamic reductase; aminoadipate semialdehyde-glutamate reductase; aminoadipic semialdehyde-glutamate reductase; ε-N-(L-glutaryl-2)-L-lysine:NAD⁺(P) oxidoreductase (L-2-aminoadipate-semialdehyde forming); saccharopine reductase; 6-N-(L-1,3-dicarboxypropyl)-L-lysine:NADP⁺ oxidoreductase (L-glutamate-forming)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.5.1.10

CAS No.

9033-55-0

Reaction

N6-(L-1,3-dicarboxypropyl)-L-lysine + NADP⁺ + H₂O = L-glutamate + (S)-2-amino-6-oxohexanoate + 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.