Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.