Creative Enzymes®

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

Cat. No. EXWM-1535

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	lysine-2-oxoglutarate reductase; lysine-ketoglutarate reductase; L-lysine-α-ketoglutarate reductase; lysine:α-ketoglutarate:TPNH oxidoreductase (ε-N-[gultaryl-2]-L-lysine forming); saccharopine (nicotinamide adenine dinucleotide phosphate, lysine-forming) dehydrogenase; 6-N-(L-1,3-dicarboxypropyl)-L-lysine:NADP+ oxidoreductase (L-lysine-forming)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.5.1.8
CAS No.	9031-19-0
Reaction	N6-(L-1,3-dicarboxypropyl)-L-lysine + NADP+ + H2O = L-lysine + 2-oxoglutarate + 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 ℃.