

## 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<sup>+</sup> or NADP<sup>+</sup> 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;  $\epsilon$ -N-(L-glutaryl-2)-L-lysine:NAD<sup>+</sup>(P) oxidoreductase (L-2-aminoadipate-semialdehyde forming); saccharopine reductase; 6-N-(L-1,3-dicarboxypropyl)-L-lysine:NADP<sup>+</sup> 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<sup>+</sup> + H<sub>2</sub>O = L-glutamate + (S)-2-amino-6-oxohexanoate + NADPH + H<sup>+</sup>

**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.