

lysine 6-dehydrogenase

Cat. No. EXWM-1451

Lot. No. (See product label)

Introduction

Description The enzyme is highly specific for L-lysine as substrate, although S-(2-aminoethyl)-L-

cysteine can act as a substrate, but more slowly. While the enzyme from Agrobacterium tumefaciens can use only NAD+, that from the thermophilic bacterium Geobacillus stearothermophilus can also use NADP+, but more slowly.

Synonyms L-lysine ε-dehydrogenase; L-lysine 6-dehydrogenase; LysDH

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.4.1.18

CAS No. 89400-30-6

Reaction L-lysine + NAD+ = (S)-2,3,4,5-tetrahydropyridine-2-carboxylate + NADH + H+ +

NH3 (overall reaction); (1a) L-lysine + NAD+ + H2O = (S)-2-amino-6-oxohexanoate

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+ NADH + H+ + NH3; (1b) (S)-2-amino-6-oxohexanoate = (S)-2,3,4,5-

tetrahydropyridine-2-carboxylate + H2O (spontaneous)

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.

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