

L-aminoadipate-semialdehyde dehydrogenase

Cat. No. EXWM-1138 Lot. No. (See product label)

Introduction	
Description	(S)-2-amino-6-oxohexanoate undergoes a spontaneous dehydration forming the cyclic (S)-2,3,4,5-tetrahydropyridine-2-carboxylate, which serves as a substrate for the hydrogenation reaction.
Synonyms	aminoadipate semialdehyde dehydrogenase; 2-aminoadipate semialdehyde dehydrogenase; α -aminoadipate-semialdehyde dehydrogenase; α -aminoadipate reductase; 2-aminoadipic semialdehyde dehydrogenase; L- α -aminoadipate Δ -semialdehyde oxidoreductase; L- α -aminoadipate Δ -semialdehyde:NAD+ oxidoreductase; L- α -aminoadipate Δ -semialdehyde:nicotinamide adenine dinucleotide oxidoreductase; L-2-aminoadipate 6-semialdehyde:NAD(P)+ 6- oxidoreductase
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 1.2.1.31
CAS No.	9067-87-2
Reaction	(S)-2-amino-6-oxohexanoate + NAD(P)+ + H2O = L-2-aminoadipate + NAD(P)H + H+ (overall reaction); (1a) (S)-2-amino-6-oxohexanoate = (S)-2,3,4,5- tetrahydropyridine-2-carboxylate + H2O (spontaneous); (1b) (S)-2,3,4,5- tetrahydropyridine-2-carboxylate + NAD(P)+ + 2 H2O = L-2-aminoadipate + NAD(P)H + 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.