Creative Enzymes®

[lysine-biosynthesis-protein LysW]-L-2-aminoadipate ligase

Cat. No. EXWM-5761

Lot. No. (See product label)

Introduction

Description	The enzymes from the thermophilic bacterium Thermus thermophilus and the thermophilic archaea Sulfolobus acidocaldarius and Sulfolobus tokodaii protect the amino group of L-2-aminoadipate by conjugation to the carrier protein LysW. This reaction is part of the lysine biosynthesis pathway in these organisms.
Synonyms	α-aminoadipate-lysW ligase lysX (gene name); LysX (ambiguous); AAA-LysW ligase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 6.3.2.43
Reaction	ATP + [lysine-biosynthesis-protein LysW]-C-terminal-L-glutamate + L-2-aminoadipate = ADP + phosphate + [lysine-biosynthesis-protein LysW]-C-terminal-γ-(L-2-aminoadip-2-yl)-L-glutamate
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 ℃.