

[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 °C for short term. For long term storage, store it at -20 °C~-80 °C.