

lysine-tRNA ligase

Cat. No. EXWM-5662

Lot. No. (See product label)

Introduction

Description

This enzyme belongs to the family of ligases, to be specific, those forming carbon-oxygen bonds in aminoacyl-tRNA and related compounds. This enzyme participates in 3 metabolic pathways: lysine biosynthesis, aminoacyl-trna biosynthesis, and amyotrophic lateral sclerosis (als).

Synonyms

lysyl-tRNA synthetase; lysyl-transfer ribonucleate synthetase; lysyl-transfer RNA synthetase; L-lysine-transfer RNA ligase; lysine-tRNA synthetase; lysine translase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 6.1.1.6

CAS No.

9031-26-9

Reaction

ATP + L-lysine + tRNA^{Lys} = AMP + diphosphate + L-lysyl-tRNA^{Lys}

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.