Creative Enzymes®

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 + tRNALys = AMP + diphosphate + L-lysyl-tRNALys
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 ℃.