

## 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 transase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 6.1.1.6

**CAS No.** 9031-26-9

**Reaction**  $\text{ATP} + \text{L-lysine} + \text{tRNA}^{\text{Lys}} = \text{AMP} + \text{diphosphate} + \text{L-lysyl-tRNA}^{\text{Lys}}$

**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.