

## phenylalanine-tRNA ligase

Cat. No. EXWM-5652

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 phenylalanine, tyrosine and tryptophan biosynthesis and aminoacyl-tRNA biosynthesis.

**Synonyms** phenylalanyl-tRNA synthetase; phenylalanyl-transfer ribonucleate synthetase; phenylalanine-tRNA synthetase; phenylalanyl-transfer RNA synthetase; phenylalanyl-tRNA ligase; phenylalanyl-transfer RNA ligase; L-phenylalanyl-tRNA synthetase; phenylalanine translase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 6.1.1.20

**CAS No.** 9055-66-7

**Reaction**  $\text{ATP} + \text{L-phenylalanine} + \text{tRNAPhe} = \text{AMP} + \text{diphosphate} + \text{L-phenylalanyl-tRNAPhe}$

**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.