

## alanine-tRNA ligase

Cat. No. EXWM-5663

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 alanine and aspartate metabolism and aminoacyl-trna biosynthesis.

**Synonyms** alanyl-tRNA synthetase; alanyl-transfer ribonucleate synthetase; alanyl-transfer RNA synthetase; alanyl-transfer ribonucleic acid synthetase; alanine-transfer RNA ligase; alanine transfer RNA synthetase; alanine tRNA synthetase; alanine transase; alanyl-transfer ribonucleate synthase; AlaRS; Ala-tRNA synthetase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 6.1.1.7

**CAS No.** 9031-71-4

**Reaction**  $\text{ATP} + \text{L-alanine} + \text{tRNAAla} = \text{AMP} + \text{diphosphate} + \text{L-alanyl-tRNAAla}$

**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.