

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.