

## valine-tRNA ligase

Cat. No. EXWM-5664

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 valine, leucine and isoleucine biosynthesis and aminoacyl-trna biosynthesis.

**Synonyms** valyl-tRNA synthetase; valyl-transfer ribonucleate synthetase; valyl-transfer RNA synthetase; valyl-transfer ribonucleic acid synthetase; valine transfer ribonucleate ligase; valine translase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 6.1.1.9

**CAS No.** 9023-47-6

**Reaction**  $\text{ATP} + \text{L-valine} + \text{tRNA}^{\text{Val}} = \text{AMP} + \text{diphosphate} + \text{L-valyl-tRNA}^{\text{Val}}$

**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.