

## glutamate-tRNA ligase

Cat. No. EXWM-5648

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: glutamate metabolism, porphyrin and chlorophyll metabolism, and aminoacyl-trna biosynthesis.

**Synonyms** glutamyl-tRNA synthetase; glutamyl-transfer ribonucleate synthetase; glutamyl-transfer RNA synthetase; glutamyl-transfer ribonucleic acid synthetase; glutamate-tRNA synthetase; glutamic acid transase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 6.1.1.17

**CAS No.** 9068-76-2

**Reaction**  $\text{ATP} + \text{L-glutamate} + \text{tRNAGlu} = \text{AMP} + \text{diphosphate} + \text{L-glutamyl-tRNAGlu}$

**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.