

## pyrrolysine-tRNAPyl ligase

Cat. No. EXWM-5657

Lot. No. (See product label)

### Introduction

#### Description

In organisms such as *Methanosarcina barkeri* that incorporate the modified amino acid pyrrolysine (Pyl) into certain methylamine methyltransferases, an unusual tRNAPyl, with a CUA anticodon, can be charged directly with pyrrolysine by this class II aminoacyl-tRNA ligase. The enzyme is specific for pyrrolysine as substrate as it cannot be replaced by lysine or any of the other natural amino acids.

#### Synonyms

PylS; pyrrolysyl-tRNA synthetase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 6.1.1.26

#### Reaction

ATP + L-pyrrolysine + tRNAPyl = AMP + diphosphate + L-pyrrolysyl-tRNAPyl

#### 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.