

## 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**  $\text{ATP} + \text{L-pyrrolysine} + \text{tRNAPyl} = \text{AMP} + \text{diphosphate} + \text{L-pyrrolysyl-tRNAPyl}$

**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.