

## tRNA<sup>Ala</sup>-lysine synthase

Cat. No. EXWM-5788

Lot. No. (See product label)

### Introduction

#### Description

The bacterial enzyme modifies the wobble base of the CAU anticodon of tRNA<sup>Ala</sup> at the oxo group in position 2 of cytidine<sup>34</sup>. This modification determines both codon and amino acid specificities of tRNA<sup>Ala</sup>.

#### Synonyms

TilS; mesJ (gene name); yacA (gene name); isoleucine-specific transfer ribonucleate lysidine synthetase; tRNA<sup>Ala</sup>-lysidine synthetase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 6.3.4.19

#### CAS No.

635304-92-6

#### Reaction

[tRNA<sup>Ala</sup>]<sub>2</sub>-cytidine<sup>34</sup> + L-lysine + ATP = [tRNA<sup>Ala</sup>]<sub>2</sub>-lysidine<sup>34</sup> + AMP + diphosphate + H<sub>2</sub>O

#### 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.