

## tRNA<sup>Ala</sup>2-agmatinylcytidine synthase

Cat. No. EXWM-5792

Lot. No. (See product label)

### Introduction

**Description** The enzyme from the archaeon *Archaeoglobus fulgidus* modifies the wobble base of the CAU anticodon of the archaeal tRNA<sup>Ala</sup>2 at the oxo group in position 2 of cytidine34. This modification is crucial for accurate decoding of the genetic code. In bacteria EC 6.3.4.19, tRNA<sup>Ala</sup>-lysine synthase, catalyses the modification of [tRNA<sup>Ala</sup>2]-cytidine34 to [tRNA<sup>Ala</sup>2]-lysine34.

**Synonyms** TiaS; AF2259; tRNA<sup>Ala</sup>-2-agmatinylcytidine synthetase; tRNA<sup>Ala</sup>-agm2C synthetase; tRNA<sup>Ala</sup>-agmatidine synthetase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 6.3.4.22

**Reaction** ATP + agmatine + [tRNA<sup>Ala</sup>2]-cytidine34 + H<sub>2</sub>O = [tRNA<sup>Ala</sup>2]-2-agmatinylcytidine34 + AMP + 2 phosphate

**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.