

tRNA^{Ala}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^{Ala}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^{Ala}-lysine synthase, catalyses the modification of [tRNA^{Ala}2]-cytidine³⁴ to [tRNA^{Ala}2]-lysine³⁴.

Synonyms

TiaS; AF2259; tRNA^{Ala}-2-agmatinylcytidine synthetase; tRNA^{Ala}-agm²C synthetase; tRNA^{Ala}-agmatidine synthetase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 6.3.4.22

Reaction

ATP + agmatine + [tRNA^{Ala}2]-cytidine³⁴ + H₂O = [tRNA^{Ala}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.