

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} 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}]-cytidine34 to [tRNA^{Ala}]-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}]-cytidine34 + H₂O = [tRNA^{Ala}]-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.