tRNAIle2-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 tRNAIle2 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, tRNAIle-lysidine synthase, catalyses the modification of [tRNAIle2]-cytidine34 to [tRNAIle2]-lysidine34.
Synonyms	TiaS; AF2259; tRNAIle-2-agmatinylcytidine synthetase; tRNAIle-agm2C synthetase; tRNAIle-agmatidine synthetase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 6.3.4.22
Reaction	ATP + agmatine + [tRNAIle2]-cytidine34 + H2O = [tRNAIle2]-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.