Creative Enzymes®

L-seryl-tRNASec selenium transferase

Cat. No. EXWM-3432

Lot. No. (See product label)

Introduction

Description	A pyridoxal 5'-phosphate enzyme identified in Escherichia coli. Recognises specifically tRNASec-species. Binding of tRNASec also occurs in the absence of the seryl group. 2-Aminoacryloyl-tRNA, bound to the enzyme as an imine with the pyridoxal phosphate, is an intermediate in the reaction. Since the selenium atom replaces oxygen in serine, the product may also be referred to as L-selenoseryl-tRNASec. The symbol Sel has also been used for selenocysteine but Sec is preferred.
Synonyms	L-selenocysteinyl-tRNASel synthase; L-selenocysteinyl-tRNASec synthase selenocysteine synthase; cysteinyl-tRNASec-selenium transferase; cysteinyl-tRNASec-selenium transferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.9.1.1
CAS No.	183869-06-9
Reaction	L-seryl-tRNASec + selenophosphate = L-selenocysteinyl-tRNASec + 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 ℃.