

L-seryl-tRNA^{Sec} selenium transferase

Cat. No. EXWM-3432

Lot. No. (See product label)

Introduction

Description

A pyridoxal 5'-phosphate enzyme identified in *Escherichia coli*. Recognises specifically tRNA^{Sec}-species. Binding of tRNA^{Sec} 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-tRNA^{Sec}. The symbol Sel has also been used for selenocysteine but Sec is preferred.

Synonyms

L-selenocysteinyl-tRNA^{Sel} synthase; L-selenocysteinyl-tRNA^{Sec} synthase
selenocysteine synthase; cysteinyl-tRNA^{Sec}-selenium transferase; cysteinyl-tRNA^{Sec}-selenium transferase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.9.1.1

CAS No. 183869-06-9

Reaction L-seryl-tRNA^{Sec} + selenophosphate = L-selenocysteinyl-tRNA^{Sec} + 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.