

O-phospho-L-seryl-tRNA^{Sec}:L-selenocysteinyl-tRNA synthase

Cat. No. EXWM-3433

Lot. No. (See product label)

Introduction

Description

A pyridoxal-phosphate protein. In archaea and eukarya selenocysteine formation is achieved by a two-step process: EC 2.7.1.164 (O-phosphoseryl-tRNA^{Sec} kinase) phosphorylates the endogenous L-seryl-tRNA^{Sec} to O-phospho-L-seryl-tRNA^{Sec}, and then this misacylated amino acid-tRNA species is converted to L-selenocysteinyl-tRNA^{Sec} by Sep-tRNA:Sec-tRNA synthase.

Synonyms

MMPSepSecS; SepSecS; SLA/LP; O-phosphoseryl-tRNA:selenocysteinyl-tRNA synthase; O-phospho-L-seryl-tRNA:L-selenocysteinyl-tRNA synthase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.9.1.2

Reaction

O-phospho-L-seryl-tRNA^{Sec} + selenophosphate + H₂O = L-selenocysteinyl-tRNA^{Sec} + 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.