

O-phosphoseryl-tRNA^{Sec} kinase

Cat. No. EXWM-2994

Lot. No. (See product label)

Introduction

Description

In archaea and eukarya selenocysteine formation is achieved by a two-step process: O-phosphoseryl-tRNA^{Sec} kinase (PSTK) 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 EC 2.9.1.2 (Sep-tRNA:Sec-tRNA synthase).

Synonyms

PSTK; phosphoseryl-tRNA[Ser]^{Sec} kinase; phosphoseryl-tRNA^{Sec} kinase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.1.164

CAS No.

91273-83-5

Reaction

ATP + L-seryl-tRNA^{Sec} = ADP + O-phospho-L-seryl-tRNA^{Sec}

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.