

[CysO sulfur-carrier protein]-thiocarboxylate-dependent cysteine synthase

Cat. No. EXWM-2729

Lot. No. (See product label)

Introduction

Description

A pyridoxal-phosphate protein. The enzyme participates in an alternative pathway for L-cysteine biosynthesis that involves a protein-bound thiocarboxylate as the sulfide donor. The enzyme from the bacterium *Mycobacterium tuberculosis* also has very low activity with O3-acetyl-L-serine (cf. EC 2.5.1.65, O-phosphoserine sulfhydrylase).

Synonyms

CysM

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.5.1.113

Reaction

O-phospho-L-serine + [CysO sulfur-carrier protein]-Gly-NH-CH₂-C(O)SH = [CysO sulfur-carrier protein]-Gly-NH-CH₂-C(O)-S-L-cysteine + 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.