Creative Enzymes®

[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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.