Creative Enzymes®

molybdenum cofactor sulfurtransferase

Cat. No. EXWM-3367

Lot. No. (See product label)

Introduction

Description	Contains pyridoxal phosphate. Replaces the equatorial oxo ligand of the molybdenum by sulfur via an enzyme-bound persulfide. The reaction occurs in prokaryotes and eukaryotes but MoCo sulfurtransferases are only found in eukaryotes. In prokaryotes the reaction is catalysed by two enzymes: cysteine desulfurase (EC 2.8.1.7), which is homologous to the N-terminus of eukaryotic MoCo sulfurtransferases, and a molybdo-enzyme specific chaperone which binds the MoCo and acts as an adapter protein.
Synonyms	molybdenum cofactor sulfurase; ABA3; HMCS; MoCo sulfurase; MoCo sulfurtransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.8.1.9
Reaction	molybdenum cofactor + L-cysteine + reduced acceptor + 2 H+ = thio-molybdenum cofactor + L-alanine + H2O + oxidized acceptor
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 ℃.