molybdopterin synthase

Cat. No. EXWM-3357

Lot. No. (See product label)

Introduction

Description	Catalyses the synthesis of molybdopterin from cyclic pyranopterin monophosphate. Two sulfur atoms are transferred to cyclic pyranopterin monophosphate in order to form the characteristic ene-dithiol group found in the molybdenum cofactor. Molybdopterin synthase consists of two large subunits forming a central dimer and two small subunits (molybdopterin-synthase sulfur-carrier proteins) that are thiocarboxylated at the C-terminus by EC 2.8.1.11, molybdopterin synthase sulfurtransferase. The reaction occurs in prokaryotes and eukaryotes.
Synonyms	MPT synthase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.8.1.12
Reaction	cyclic pyranopterin phosphate + 2 [molybdopterin-synthase sulfur-carrier protein]-Gly-NH-CH2-C(O)SH + H2O = molybdopterin + 2 molybdopterin-synthase sulfur-carrier protein
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 ℃.