Product Data Sheet

Product Name:	MOCS2 Human
Cat. No.:	GP23938
Batch No.:	1

Product Data

Purity	>98%	Source	E.coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Molybdenum Cofactor Synthesis 2; Molybdopterin Synthase Sulfur Carrier Subunit; Molybdenum Cofactor Biosynthesis Protein E; MPT Synthase Large Subunit; Molybdopterin Synthase Catalytic Subunit; Molybdenum Cofactor Synthesis Protein 2 Large Subunit; Molybdenum Cofactor Synthesis Protein 2 Small Subunit; Molybdenum Cofactor Synthesis Protein 2A; Molybd enum Cofactor Synthesis Protein 2B; Sulfur Carrier Protein MOCS2A; MCBPE; MOCO1; MOCO1-A; MOCO1-B; MOCS2A; MOCS2B; MPTS; EC 2.8.1.12.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSSL EISSSCFSLE TKLPLSPPLV EDSAFEPSRK DMDEVEEKSK DVINFTAEKL SVDEVSQLVI SPLCGAISLF VGTTRNNFEG KKVISLEYEA YLPMAENEVR KICSDIRQKW PVKHIAVFHR LGLVPVSEAS IIIAVSSAHR AASLEAVSYA IDTLKAKVPI WKKEIYEESS TWKGNKECFW ASNS		
Formulation	The MOCS2 solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 50% glycerol.		

Introduction

Molybdenum Cofactor Synthesis 2 (MOCS2) is a heterotetrameric synthase comprised of 2 small (MOCS2A) and 2 large (MOCS2B) subunits. Both the large and small subunits of molybdopterin synthase are encoded from the MOCS2 gene by overlapping open reading frames. MOCS2 operates in the second step of the molybdenum cofactor or molybdopterin (MPT) synthesis. MOCS2 catalyzes the formation of MPT from precursor Z by incorporating a dithiolene functional group.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

MOCS2 Human Recombinant produced in E. coli is a single polypeptide chain containing 224 amino acids (1-188) and having a molecular mass of 25.0 kDa.MOCS2 is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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