

MOCS2 Human

Description: 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.

Catalog #: PRPS-1288

For research use only.

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, Molybd

Source: E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSSL
EISSCFSLE TKLPLSPPLV EDSAFEPSRK DMDEVEEKSK DVINFTEAKL SVDEVSQLVI
SPLCGAISLF VGTRNNFEG KKVISLEYEA YLPMAENEVR KICSDIRQKW PVKHIAVFHR
LGLVPVSEAS IIIAVSSAHR AASLEAVSYA IDTLKAKVPI WKKEIYEES TWKGNKECFW ASNS

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:

The MOCS2 solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 50% glycerol.

Stability:

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

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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