Recombinant human MOCS2 protein

Catalog Number: ATGP1712

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-188aa

UniProt No.
O96007

NCBI Accession No.
NP_004522

Alternative Names
molybdenum cofactor synthesis 2, molybdenum cofactor synthesis 2, MCBPE, MOCO1, MOCS2A, MOCS2B, MPTS

PRODUCT SPECIFICATION

Molecular Weight
25 kDa (224aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 50% glycerol,1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
MOCS2 is a heterotetrameric synthase composed of two small (MOCS2A) and two large (MOCS2B) subunits. The large and small subunits of molybdopterin synthase are both encoded from this gene by overlapping open reading frames. MOCS2 functions in the second step of the synthesis of molybdenum cofactor or molybdopterin (MPT). It catalyzes the formation of MPT from precursor Z by incorporating a dithiolene functional group. Recombinant human MOCS2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

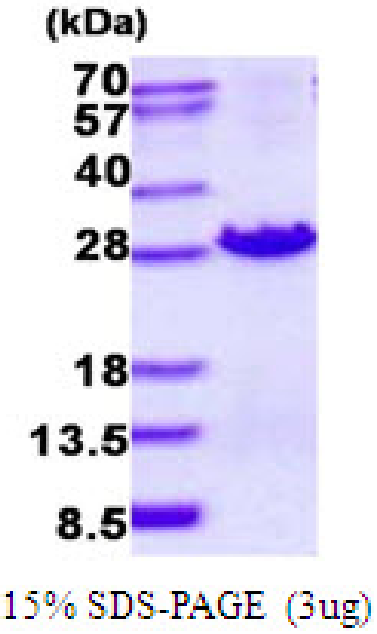
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSSL EISSSCFSLE TKLPLSPPLV EDSAFEPSRK DMDEVEEKSK DVINFTAEKL SVDEVSQLVI SPLCGAISLF VGTTRNNFEG KKVISLEYEA YLPMAENEVR KICSDIRQKW PVKHIAVFHR LGLVPVSEAS IIIAVSSAHR AASLEAVSYA IDTLKAKVPI WKKEIYEESS TWKGNKECFW ASNS

General References

Leimkuhler S., et al. (2005) Hum Genet. 117: 565-570
Reiss J., et al. (1999) Hum Genet . 64: 706-711.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.