

Recombinant human CPOX protein

Catalog Number: ATGP2042

PRODUCT INFORMATION

Expression system

E.coli

Domain

111-454aa

UniProt No.

P36551

NCBI Accession No.

NP_000088

Alternative Names

Coproporphyrinogen-III oxidase mitochondrial precursor, Coproporphyrinogen-III oxidase, mitochondrial precursor, CPO, CPX, HCP

PRODUCT SPECIFICATION

Molecular Weight

41.6 kDa (367aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 95% 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

Coproporphyrinogen-III oxidase, mitochondrial precursor, also known as CPOX, is a 454 amino acid mitochondrial enzyme that is localized to the inner membrane space of erythrocytes. It participates in the sixth step of heme biosynthesis by catalyzing the formation of protoporphyrinogen IX from coproporphyrinogen III. Mutations in human CPOX gene predict the clinical outcome of the disease, with either hepatic hereditary coproporphyrinemia or hematological manifestations of erythropoietic protoporphyria. Recombinant human CPOX protein, fused to

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His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSTSLGRPE EEEDELAHRC SSFMAPPVTD LGELRRRPGD MKTKMELLIL ETQAQVCQAL
AQVDGGANFS VDRWERKEGG GGISCVLQDG CVFEKAGVSI SVVHGNSLEE AAKQMRSRGK VLKTKDGKLP FCAMGVSSVI
HPKNPHAPTI HFNYRYFEVE EADGNKQWWF GGGCDLTPTY LNQEDAVHFH RTLKEACDQH GPDLYPKFKK WCDDYFFIAH
RGERRGIGGI FFDDLSPSK EEVFRFVQSC ARAVVPSYIP LVKKHCDDSF TPQEKLWQQL RRGRYVEFNL LYDRGTKFGL
FTPGSRIESI LMSLPLTARW EYMHSPSENS KEAEILEVLR HPRDWVR

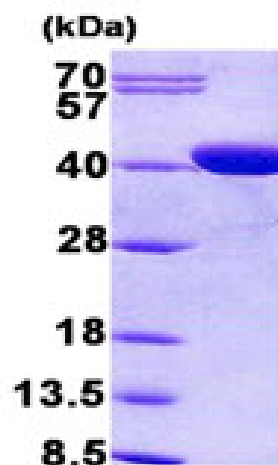
General References

Martasek P., et al. (1994) *Hum Mol Genet.* 3:477-480

Lamoral J., et al. (1995) *Hum Mol Genet.* 4:275-278.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)