

CPOX recombinant protein

CPOX, 111-454aa, Human, His tag, E Coli

CATALOG # AAA48827	HOST E Coli	APPLICATIONS SDS-Page
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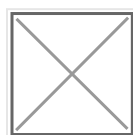
PRODUCT SYNONYMS

CPOX; 111-454aa; Human; His tag; E Coli; Coproporphyrinogen-III oxidase mitochondrial precursor; Coproporphyrinogen-III oxidase; mitochondrial precursor; CPO; CPX; HCP; CPOX recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSTSLGRPE EEDELAHRC SSFMAPPVTD LGELRRRPGD MKTKMELLIL ETQAQVCQAL AQVDGGANFS VDRWERKEGG GGISCVLQDG CVFEKAGVSI SVVHGNLSEE AAKQMRSRGK VLKTKDGKLP FCAMGVSSVI HPKNPHPTI HFNYRYFEVE EADGNKQWWF GGGCDLTPTY LNQEDAVHFIH RTLKEACDQH GPDLYPKFKK WCDDYFFIAH RGERRGIGGI FFDDLDSPSK EEVFRFVQSC ARAVVPSYIP LVKKHCDDSF TPQEKLWQQL RRGRYVEFNL LYDRGTKFGL FTPGSRIESI LMSLPLTARW EYMHSPSENS KEAEILEVLR HPRDWVR
Sequence Length	454
Applicable Applications for CPOX recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CPOX recombinant protein	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 coproporphyrria or hematological manifestations of erythropoietic harderoporphyrria. Recombinant human CPOX protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
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Product Categories/Family for CPOX recombinant protein	Metabolism
References	Martasek P., et al. (1994) Hum Mol Genet. 3:477-480; Lamoril J., et al. (1995) Hum Mol Genet. 4:275-278.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	41393599
NCBI GeneID	1371
NCBI Accession #	NP_000088
NCBI GenBank Nucleotide #	NM_000097.5
UniProt Accession #	P36551; Q14060; Q53F08; Q8IZ45; Q96AF3; A8K275; B4DSD5
Molecular Weight	41.6 kDa (367aa) confirmed by MALDI-TOF
NCBI Official Full Name	oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial
NCBI Official Synonym Full Names	coproporphyrinogen oxidase
NCBI Official Symbol	CPOX
NCBI Official Synonym Symbols	CPO; CPX; HCP
NCBI Protein Information	oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial
UniProt Protein Name	Oxygen-dependent coproporphyrinogen-III oxidase, mitochondrial
UniProt Gene Name	CPOX
UniProt Synonym Gene Names	CPO; CPX; COX; Coprogen oxidase; Coproporphyrinogenase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.