Recombinant Human coproporphyrinogen oxidase, His-tagged

Cat. No. CPOX-527H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CPOX, 111-454aa , Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	111-454 a.a.
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 coproporphyria or hematological manifestations of erythropoietic harderoporphyria. Recombinant human CPOX protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	41.6 kDa (367aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSTSLGRPE EEEDELAHRC SSFMAPPVTD LGELRRRPGD MKTKMELLIL ETQAQVCQAL AQVDGGANFS VDRWERKEGG GGISCVLQDG CVFEKAGVSI SVVHGNLSEE AAKQMRSRGK VLKTKDGKLP

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	FCAMGVSSVI HPKNPHAPTI HFNYRYFEVE EADGNKQWWF GGGCDLTPTY LNQEDAVHFH RTLKEACDQH GPDLYPKFKK WCDDYFFIAH RGERRGIGGI FFDDLDSPSK EEVFRFVQSC ARAVVPSYIP LVKKHCDDSF TPQEKLWQQL RRGRYVEFNL LYDRGTKFGL FTPGSRIESI LMSLPLTARW EYMHSPSENS KEAEILEVLR HPRDWVR
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	CPOX coproporphyrinogen oxidase [Homo sapiens]
Official Symbol	CPOX
Synonyms	CPOX; coproporphyrinogen oxidase; coproporphyrinogen oxidase (coproporphyria, harderoporphyria) , CPO; coproporphyrinogen-III oxidase, mitochondrial; coproporphyria; CPX; HCP; COX; coprogen oxidase; coproporphyrinogenase; CPO;
Gene ID	1371
mRNA Refseq	NM_000097
Protein Refseq	NP_000088
MIM	612732

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UniProt ID	P36551
Chromosome Location	3q12
Pathway	Heme Biosynthesis, organism-specific biosystem; Heme biosynthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of porphyrins, organism-specific biosystem; Porphyrin and chlorophyll metabolism, organism-specific biosystem; Porphyrin and chlorophyll metabolism, conserved biosystem;
Function	coproporphyrinogen oxidase activity; oxidoreductase activity; protein homodimerization activity;

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