

---

**Product Data Sheet**


---

Product Name: CPOX Human  
 Cat. No.: GP21495  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CPO; CPX; HCP; Coproporphyrinogen-III oxidase; mitochondrial; COX; Coprogen oxidase; Coproporphyrinogenase; CPOX.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSTSLGRPE EEDELAHRC SSFMAPPVTD LGELRRRPGD MKTKMELLIL ETQAQVCQAL AQVDGGANFS VDRWERKEGG GGISCVLQDG CVFEKAGVSI SVVHGNLSEE AAKQMRSRGK VLKTKDGKLP FCAMGVSSVI HPKNPHAPTI HFNYRYFEVE EADGNKQWWF GGGCDLTPTY LNQEDAVHFH RTLKEACDQH GPDLYPKFKK WCDDYFFIAH RGERRGIGGI FFDDLSPSK EEVFRFVQSC ARAVVPYIP LVKKHCDDSF TPQEKLWQQL RRGRYVEFNL LYDRGTFKFL FTPGSRIESI LMSLPLTARW EYMHSPSENS KEAEILEVLR HPRDWVR.		
Formulation	The CPOX solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

**Introduction**

Coproporphyrinogen Oxidase (CPOX) which is localized to the internal membrane space of erythrocytes takes part in the 6th phase of heme biosynthesis. CPOX catalyzes the oxidative decarboxylation of propionic acid side chains of rings A and B of coproporphyrinogen III. Mutations in human CPOX gene forecast the clinical result of the disease, with either hepatic hereditary coproporphyrinuria or hematological manifestations of erythropoietic coproporphyrinuria.

**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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

### Background

CPOX Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 367 amino acids (111-454) and having a molecular mass of 41.6kDa. CPOX is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**