



# Recombinant Human Protoporphyrinogen oxidase (PPOX)

<b>Product Code</b>	CSB-MP018502HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P50336
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MGRTVVVLGG GISGLAASYH LSRAPCPPKV VLVESSERLG GWIRSVRGNP            GAIFELGPRG IRPAGALGAR TLLLVSELGL DSEVLPVRGD HPAAQNRFLY            VGGALHALPT GLRGLLRPSP PFSKPLFWAG LRELTKPRGK EPDETVHSFA            QRRLGPEVAS LAMDSLRCRV FAGNSRELSI RSCFPRLFQA EQTHRSILLG            LLLGAGRTPQ PDSALIRQAL AERWSQWSLR GGLEMLPQAL ETHLTSRGVS            VLRGQPVCGL SLQAEGRWKV SLRDSSLEAD HVISAIPASV LSELLPAEAA            PLARALSAIT AVSVAVVNLQ YQGAHLPVQG FGHLVPSSD PGVLGIVYDS            VAFPEQDGSP PGLRVTVMLG GSWLQTLEAS GCVLSQELFQ QRAQEAAATQ            LGLKEMPSHC LVHLHKNCIP QYTLGHWQKL ESARQFLTAH RLPLTLGAS            YEGVAVNDCI ESGRQAAVSV LGTEPNS</p>
<b>Source</b>	Mammalian cell
<b>Target Names</b>	PPOX
<b>Protein Names</b>	Recommended name: Protoporphyrinogen oxidase Short name= PPO EC= 1.3.3.4
<b>Expression Region</b>	1-477
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This gene encodes the penultimate enzyme of heme biosynthesis, which catalyzes the 6-electron oxidation of protoporphyrinogen IX to form protoporphyrin IX. Mutations in this gene cause variegate porphyria, an autosomal dominant disorder of heme metabolism resulting from a deficiency in protoporphyrinogen oxidase, an enzyme located on the inner mitochondrial membrane. Alternatively spliced transcript variants encoding the same protein have been identified.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.



## **Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.