

Recombinant Human Uroporphyrinogen Decarboxylase, His-tagged

Cat. No. UROD-730H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant humanUROD protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques. MW = 43.0 kDa (387aa).

Species

Human

Source

E.coli

Description

UROD is the fifth enzyme in the human heme biosynthetic pathway and is responsible for the conversion of uroporphyrinogen to coproporphyrinogen through the removal of four carboxymethyl side chains. Mutations and deficiency in this enzyme are responsible for three autosomal disorders in humans: familial porphyria cutanea tarda (f-PCT), sporadic porphyria cutanea tarda (s-PCT) and hepatoerythropoietic porphyria (HEP).

Sequences Of Amino Acids

MGSSHHHHHH SSGLVPRGSH MEANGLGPQG FPELKNDTFL RAAWGEETDY
TPVWCMRQAG RYLPEFRETR AAQDFSTCR SPEACCELTL QPLRRFPLDA
AIIFSDILVV PQALGMEVTM VPGKGPSFPE PLREEQDLER LRDPEVVASE
LGYVFQAITL TRQRLAGRVP LIGFAGAPWT LMTYMVEGGG SSTMAQAKRW
LYQRPQASHQ LLRILTDALV PYLVGQVVAG AQALQLFESH AGHLGPQLFN
KFALPYIRDV AKQVKARLRE AGLAPVPMII FAKDGHFALE ELAQAGYEVV
GLDWTVAPKK ARECVGKTVT LQVNLDPCAL YASEEEIGQL VKQMLDDFGP
HRYIANLGHG LYPDMDPEHV GAFVDAVHKH SRRLLRQN

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Purity	> 95% by SDS – PAGE.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol 1mM DTT, 0.1M NaCl, and 1mM EDTA.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	UROD uroporphyrinogen decarboxylase [Homo sapiens]
Synonyms	UROD; uroporphyrinogen decarboxylase; PCT; uroporphyrinogen III decarboxylase; fifth enzyme of heme biosynthetic pathway; fifth enzyme of the heme biosynthetic pathway; EC 4.1.1.37; UPD; URO-D; OTTHUMP00000010502
Gene ID	7389
mRNA Refseq	NM_000374
Protein Refseq	NP_000365
MIM	176100
UniProt ID	P06132
Chromosome Location	1p34

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Pathway Porphyrin and chlorophyll metabolism; Metabolism of porphyrins

Function uroporphyrinogen decarboxylase activity; lyase activity

PDB rendering based
on 1jph.

