

# Product information



## UROD, 1-367 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0612

**Full name:** Uroporphyrinogen decarboxylase.

**NCBI Accession No.:** AAH01778

**Synonyms:** PCT

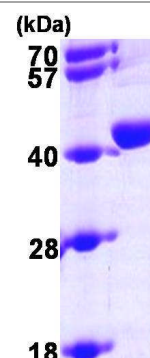
**Description:** UROD is the fifth enzyme in the human heme biosynthetic pathway and is responsible for the conversion of uroporphyrinogen to coproporphyrinogen through the removal of four carboxymethyl side chains. Mutations and deficiency in this enzyme are responsible for three autosomal disorders in humans: familial porphyria cutanea tarda (f-PCT), sporadic porphyria cutanea tarda (s-PCT) and hepatoerythropoietic porphyria (HEP). Recombinant human UROD 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 20% glycerol  
1mM DTT, 0.1M NaCl, and 1mM EDTA.

**Molecular Weight:** 43.0 kDa (387aa) confirmed by MALDI-TOF

**Purity:** > 95 % by SDS – PAGE

**Concentration:** 0.5 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MEANGLGPQG FPELKNDFL RAAWGEETDY TPVWCMRQAG RYLPEFRETR AAQDFFSTCR SPEACCELT  
QPLRRFPLDA AII FSDILVV PQALGMEVTM VPGKGPSFPE PLREEQDLER LRDPEVVASE LGYVFQA I TL TRQLAGRPV LIGFAGAPWT  
LMTYMVEGGG SSTMAQAKRW LYQRPQASHQ LLRI L TDALV PYLVGQVVAG AQALQLFESH AGHLGPQLFN KFALPYIRDV AKQVKARLRE  
AGLAPVPMII FAKDGHFALE ELAQAGYEVV GLDWTVAPKK ARECVGKTVT LQVNLDPAL YASEEEIGQL VKQMLDDFGP HRYIANLGHG  
LYPDMDEHV GAFVDAVHKH SRI LRQN

### General references:

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

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Lewis CA Jr., *et al.* (2008) *Proc Natl Acad Sci U S A.* 105(45):17328-33.

Garey JR., *et al.* (1989) *Blood.* 73(4):892-5.

**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.

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