

UROD, 1-367aa, Human, His tag, E.coli

Cat.NO.: TP04440

3th Edition

Synonyms:PCT, Uroporphyrinogen decarboxylase, UPD, URO D, URO-D

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

Sequences:

MGSSHHHHHHSSGLVPRGSHMEANGLGPQGFPELKNDTFLRAAWGEETDYTPVWCMRQAGRYLPEFRETRAAQ
DFFSTCRSPEACCELTLQPLRRFPLDAAIIFSDILVVPQALGMEVTMVPKGPSFPEPLREEQDLERLRDPEVVASE
LGYYVFQAITLTRQRLAGRVPLIGFAGAPWTLMTYMVEGGGSSTMAQAKRWLYQRPQASHQLLRILTDALVPYLVGQ
VVAGAQALQLFESHAGHLGPQLFNKFALPYIRDVAKQVKARLREAGLAPVPMIIFAKDGHFALEELAQAGYEVVGLD
WTVAPKKARECVGKTVTLQVNLDPALYASEEEIGQLVKQMLDDFGPHRYIANLGHGLYPDMDPEHVGAFVDAVH
KHSRLLRQN

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.