

Recombinant Human Uroporphyrinogen III Synthase, His-tagged

Cat. No. UROS-996H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UROS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography (1-265aa).
Species	Human
Source	E.coli
Description	UROS, also known as Uroporphyrinogen III synthase, is an enzyme involved in the fourth step of porphyrin metabolism, involved in the conversion of hydroxymethylbilane into uroporphyrinogen III. Defects in this protein can cause molecular lesions that lead to the autosomal recessive Gunther disease, also known as congenital erythropoietic porphyria (CEP).
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 0.1M NaCl
Molecular Weight	30.7 kDa(285aa) confirmed by MALDI-TOF
Purity	>95% by SDS - PAGE
Concentration	1.0 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MKVLLLKDAK EDDCGQDPYI RELGLYGLEA TLIPVLSFEF LSLPSFSEKL SHPEDYGGI FTSPRAVEAAELCLEQNNKT EWWERSLKEK WNAKSVYVVG NATASLVSKI GLDTEGETCG NAEKLAEYIC

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SRESSALPLL FPCGNLKREI LPKALKDKGIAMESITVYQT VAHPGIQGNL
 NSYYSQQGVP ASITFFSPSG LTYSCLKHIQE LSGDNIDQIK FAAIGPTTAR
 ALAAQGLPVS CTAESPTPQALATGIRKALQ PHGCC

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

UROS uroporphyrinogen III synthase [Homo sapiens]

Synonyms

UROS; uroporphyrinogen-III synthase;
 UROIII; hydroxymethylbilane hydrolyase; uroporphyrinogen-III cosynthase;
 NP_000366.1; EC 4.2.1.75; OTTHUMP00000020710; OTTHUMP00000020712

Gene ID

7390

mRNA Refseq

NM_000375

Protein Refseq

NP_000366

MIM

606938

UniProt ID

P10746

**Chromosome
Location**

10q25.2-q26.3

Function

cofactor binding; lyase activity; uroporphyrinogen-III synthase activity;
 uroporphyrinogen-III synthase activity

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