

# Recombinant human UROS protein

Catalog Number: ATGP1066

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-265aa

### UniProt No.

P10746

### NCBI Accession No.

NP\_000366

### Alternative Names

uroporphyrinogen-III synthase, uroporphyrinogen III synthase

## PRODUCT SPECIFICATION

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### Molecular Weight

30.7 kDa (285aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

uROS, also known as uroporphyrinogen III synthase, is an enzyme involved in the fourth step of porphyrin metabolism, involved in the conversion of hydroxymethyl bilane 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). Recombinant human uROS protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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### Amino acid Sequence

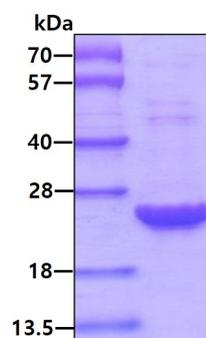
<MGSSHHHHHH SSGLVPRGSH> MKVLLKDAK EDDCGQDPYI RELGLYGLEA TLIPVLSFEF LSLPSFSEKL SHPEDYGGLI  
FTSPRAVEAA ELCLEQNNKT EVWERSLKEK WNAKSVYVVG NATASLVSKI GLDTEGETCG NAEKLAEYIC SRESSALPLL  
FPCGNLKREI LPKALKDKGI AMESITVYQT VAHPGIQGNL NSYYSQQGVP ASITFFSPSG LTYSLKHIQE LSGDNIDQIK  
FAAIGPTTAR ALAAQGLPVS CTAESPTPQA LATGIRKALQ PHGCC

### General References

Geronimi F. et al. (2003) J. Mol. Med. 81: 310-320.  
Omata Y. et al. (2004) J. BioChem. 136: 211-220.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.