

UROS, 1-265aa, Human, His tag, E.coli

Cat.NO.: TP04441

3th Edition

Synonyms:Uroporphyrinogen-III synthase, Uroporphyrinogen III synthase

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.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 0.1M NaCl

Molecular Weight:30.7 kDa (285aa) confirmed by MALDI-TOF

Sequences:

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MGSSHHHHHHSSGLVPRGSHMKVLLLKDAKEDDCGQDPYIRELGLYGLEATLIPVLSFEFLSLPSFSEKLSHPEDY
GGLIFTSPRAVEAAELCLEQNNKTEVWERSLKEKWNKSVYVVG NATASLVSKIGLDTEGETCGNAEKLAEYICSR
ESSALPLLFP CGNLKREILPKALKDKGIAMESITVYQTV AHPGIQGNLNSYYSQQGVPASITFFSPSGLTYSLKHIQEL
SGDNIDQIKFAAIGPTTARALAAQGLPV SCTAESPTPQALATGIRKALQPHGCC
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Purity:> 95% by HPLC

Concentration:1.0 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.