

# Recombinant Human UROS/UROIII5 Protein (His Tag)

Catalog Number:PKSH033200



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

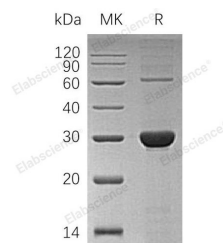
## Description

|                                    |  |
|------------------------------------|--|
| <b>Synonyms</b>                    | Uroporphyrinogen-III Synthase;UROIII5;UROS;Hydroxymethylbilane Hydrolyase [Cyclizing];Uroporphyrinogen-III Cosynthase;UROS |
| <b>Species</b>                     | Human  |
| <b>Expression Host</b>             | E.coli   |
| <b>Sequence</b>                    | Met 1-Cys265   |
| <b>Accession</b>                   | P10746   |
| <b>Calculated Molecular Weight</b> | 29.7 kDa   |
| <b>Observed molecular weight</b>   | 29 kDa   |
| <b>Tag</b>                         | C-His  |

## Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.  |
| <b>Storage</b>        | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.   |
| <b>Shipping</b>       | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C. |
| <b>Formulation</b>    | Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 100mM NaCl, 10% Glycerol, pH 8.0.   |
| <b>Reconstitution</b> | Not Applicable   |

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Uroporphyrinogen-III Synthase is an enzyme which belongs to the uroporphyrinogen-III synthase family. Uroporphyrinogen-III Synthase is ubiquitous and it is involved in Porphyrin metabolism. Porphyrins act as cofactors for a multitude of enzymes that perform a variety of processes within the cell such as Methionine synthesis (Vitamin B12) or oxygen transport (Heme). Uroporphyrinogen-III Synthase can catalyze cyclization of the linear Tetrapyrrole, Hydroxymethylbilane, to the Macrocytic Uroporphyrinogen III, the branch point for the various sub-pathways leading to the wide diversity of Porphyrins. Defects in Uroporphyrinogen-III Synthase are the cause of Congenital Erythropoietic Porphyria (CEP).

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