



# Recombinant Protein Technical Manual

**Recombinant Human UROS/UROIIS Protein (His Tag)**  
RPES2355

## Product Data:

**Product SKU:** RPES2355

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P10746

## Protein Information:

**Molecular Mass:** 29.7 kDa

**AP Molecular Mass:** 29 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** 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.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 100mM NaCl, 10% Glycerol, pH 8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Uroporphyrinogen-III Synthase; UROIIS; UROS; Hydroxymethylbilane Hydrolyase [Cyclizing]; Uroporphyrinogen-III Cosynthase; UROS

## Immunogen Information:

**Sequence:** Met 1-Cys265

## 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 Macrocyclic 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).