Recombinant Human UROS/UROIIIS Protein (His Tag)

Catalog Number: PKSH033200

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

Description	
Species	Human
Source	E.coli-derived Human UROS/UROIIIS protein Met 1-Cys265, with an C-terminal His
Calculated MW	29.7 kDa
Observed MW	29 kDa
Accession	P10746
Bio-activity	Not validated for activity
Properties	
Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per µg of the protein 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 $< -20^{\circ}$ C.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 100mM NaCl, 10% Glycerol,
	рН 8.0.
Data	
kDa MK	R
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> 95 % as determined by reducing SDS-PAGE.

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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).