

UROD Protein, Human, Recombinant (His)

General Information

Synonyms:	UPD;UROD;Uroporphyrinogen Decarboxylase;URO-D
Protein Construction:	Met1-Asn367
Species:	Human
Expression Host:	E. coli
Accession:	P06132
Molecular Weight:	40 KDa (reducing condition)
AA Sequence:	Met1-Asn367

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 1 mM EDTA, pH 8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Uroporphyrinogen decarboxylase (UROD), is an enzyme of the heme biosynthetic pathway which belongs to the uroporphyrinogen decarboxylase family. This enzyme is responsible for catalyzing the conversion of uroporphyrinogen to coproporphyrinogen through the removal of four carboxymethyl side chains. UROD is a homodimeric enzyme that catalyzes the fifth step in heme biosynthesis: the elimination of carboxyl groups from the four acetate side chains of uroporphyrinogen III to yield coproporphyrinogen III. Defects in UROD are the cause of familial porphyria cutanea tarda (FPCT) and hepatoerythropoietic porphyria (HEP).

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