

UROD Protein, Human (His)

Cat. No.:	HY-P71080
Synonyms:	Uroporphyrinogen Decarboxylase; UPD; URO-D; UROD
Species:	Human
Source:	E. coli
Accession:	P06132 (M1-N367)
Gene ID:	7389
Molecular Weight:	Approximately 40.0 kDa

PROPERTIES

AA Sequence	<pre> MEANGLGPQG FPELKNDTFL RAAWGEETDY TPVWCMRQAG RYLPEFRETR AAQDFDFSTCR SPEACCELT L QPLRRFPLDA AII FSDILVV PQALGMEVTM VPGKGPSFPE PLREEQDLER LRDPEVVASE LGYVFQAITL TRQRLAGRVP LIGFAGAPWT LMTYMEVGGG SSTMAQAKRW LYQRPQASHQ LLRI L TDALV PYLVGQVVAG AQALQLFESH AGHLGPQLFN KFALPYIRDV AKQVKARLRE AGLAPVPMII FAKDGHFALE ELAQAGYEVV GLDWTVAPKK ARECVGKTVT LQGNLDPCAL YASEEEIGQL VKQMLDDFGP HRYIANLGHG LYPDMDEPHV GAFVDAVHKH SRLLRQN </pre>
Appearance	Solution.
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.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	UROD protein plays a crucial role in the heme biosynthetic pathway by catalyzing the sequential decarboxylation of the four acetate side chains of uroporphyrinogen, resulting in the formation of coproporphyrinogen. Both isomer I and isomer III of uroporphyrinogen may serve as substrates, but only coproporphyrinogen III can be further converted to heme. This
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enzymatic process represents the fifth step in heme biosynthesis and is essential for the production of this critical component involved in various physiological functions. Additionally, in vitro experiments demonstrate UROD's capability to decarboxylate pentacarboxylate porphyrinogen I, underscoring its versatility in substrate specificity.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA