

Product Data Sheet

Inhibitors • Screening Libraries • Proteins

UROIIIS Protein, Human (His)

Cat. No.:	HY-P71105
Synonyms:	Uroporphyrinogen-III Synthase; UROIIIS; UROS; Hydroxymethylbilane Hydrolyase [Cyclizing]; Uroporphyrinogen-III Cosynthase; UROS
Species:	Human
Source:	E. coli
Accession:	P10746 (M1-C265)
Gene ID:	7390
Molecular Weight:	Approximately 29.0 kDa

PROPERTIES	
PROPERTIES	
AA Sequence	MKVLLLKDAKEDDCGQDPYIRELGLYGLEATLIPVLSFEFLSLPSFSEKLSHPEDYGGLIFTSPRAVEAAELCLEQNNKTEVWERSLKEKWNAKSVYVVGNATASLVSKIGLDTEGETCGNAEKLAEYICSRESSALPLLFPCGNLKREILPKALKDKGIAMESITVYQTVAHPGIQGNLNSYYSQQGVPASITFFSPSGLTYSLKHIQELSGDNIDQIKFAAIGPTTARALAAQGLPVSCTAESPTPQALATGIRKALQPHGCC
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	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 UROIIIS, or uroporphyrinogen-III synthase, plays a pivotal role in tetrapyrrole biosynthesis by catalyzing the cyclization of hydroxymethylbilane to form the macrocyclic uroporphyrinogen III. This enzymatic step represents a critical branch point, giving rise to various sub-pathways leading to the diverse array of porphyrins. Porphyrins, synthesized through this process, serve as essential cofactors for numerous enzymes involved in diverse cellular processes. These processes include methionine synthesis, where porphyrins act as cofactors for enzymes related to vitamin B12 metabolism, as well as oxygen transport, where porphyrins, particularly heme, play a crucial role in binding and transporting oxygen in hemoglobin. It has

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