

Porphobilinogen deaminase

Cat. No. CBCRY24 Lot. No. (See product label)

SPECIFICATION

Product Overview

Source	E.coli
Background	The protein is the third enzyme of the heme biosynthetic pathway and catalyzes the head to tail condensation of four porphobilinogen molecules into the linear hydroxymethylbilane. Mutations in this gene are associated with the autosomal dominant disease acute intermittent porphyria. Alternatively spliced transcript variants encoding different isoforms have been described.
Protein Classification	Transferase
Structure Weight	80152.23 Da
Polymer	1
Molecule	Porphobilinogen deaminase
Chain Length	364 amino acids
PDB ID	3ECR
MMDB ID	67075
Method	X-Ray Diffraction

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Resolution	2.18Å
Ligand Chemical Component	DPM
Reference	Song, G., Li, Y., Cheng, C., Zhao, Y., Gao, A., Zhang, R., Joachimiak, A., Shaw, N., Liu, Z.J. (2009) Structural insight into acute intermittent porphyria. <i>Faseb J.</i> 23: 396-404

GENE INFORMATION

Gene Name	HMBS
Synonyms	PBG-D; PBGD; UPS; porphobilinogen deaminase; pre-uroporphyrinogen synthase; uroporphyrinogen I synthase; uroporphyrinogen I synthetase; EC 2.5.1.61; hydroxymethylbilane synthase
UniProt ID	P08397
Gene ID	3145
Chromosome Location	11q23.3
Function	hydroxymethylbilane synthase activity; transferase activity

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