

Recombinant Human HMBS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HMBS-2031H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HMBS MS Standard C13 and N15-labeled recombinant protein (NP_000181) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the hydroxymethylbilane synthase superfamily. The encoded 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.
Molecular Mass	39.3 kDa
AA Sequence	MSGNGNAAATAEENSPKMRVIRVGTRKSQLARIQTDSVATLKASYPGLQFEIAMS TTGDKILDALTSLKIGESLFTKELEHALEKNEVDLVVHSLKDLPTVLPFGFTIGAICKRE NPHDAVVFHPKFVGKTLETLPKESVVGTSLLRRAAQLQRKFPHFLEFRSIRGNLNTRL RKLDEQQEFSAILATAGLQRMGWHNRVGQILHPEECMYAVGQGALGVEVRAKDQ DILDLVGVLDHPETLLRCIAERAFLRHLEGGCSVPVAVHTAMKDGQLYLTGGVWSLD GSDSIQETMQATIHVPAQHEDGPEDDPQLVGITARNIPRGPQLAAQNLGISLANLLLS KGAKNILDVARQLNDAHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	HMBS hydroxymethylbilane synthase [Homo sapiens (human)]
Official Symbol	HMBS
Synonyms	HMBS; hydroxymethylbilane synthase; PBGD, PORC, porphobilinogen deaminase, porphyria, acute; Chester type, UPS, uroporphyrinogen I synthase; porphobilinogen deaminase; uroporphyrinogen I synthase; pre-uroporphyrinogen synthase; uroporphyrinogen I synthetase; porphyria, acute; Chester type; UPS; PBGD; PORC; PBG-D;
Gene ID	3145
mRNA Refseq	NM_000190
Protein Refseq	NP_000181
MIM	609806

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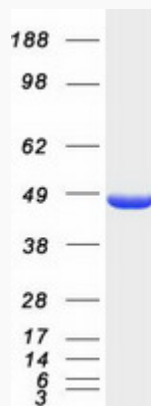
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UniProt ID

P08397

SDS-PAGE

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