

## HMBS Human

**Description:** HMBS Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 385 amino acids (1-361) and having a molecular mass of 41.9kDa. HMBS is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-588

For research use only.

**Synonyms:** Porphobilinogen deaminase, PBG-D, Hydroxymethylbilane synthase, HMBS, Pre-uroporphyrinogen synthase, HMBS, PBGD, UPS, PORC.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMSGNGN AAATAEENSP  
KMRVIRVGTR KSQLARIQTD SVVATLKASY PGLQFEIIM STTGDKILDT ALSKIGEKSL  
FTKELEHALE KNEVDLVVHS LKDLPTVLPP GFTIGAICKR ENPHDAVVFH PKFVGKTLET  
LPEKSVVGTS SLRRAAQLQR KFPHEFRSI RGNLNTRLRK LDEQQEFSAI ILATAGLQRM  
GWHNRVGQIL HP

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

The HMBS solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Porphobilinogen deaminase (HMBS) belongs to the hydroxymethylbilane synthase superfamily. HMBS is a cytoplasmic enzyme found in the heme synthesis pathway. HMBS is the 3rd enzyme of the heme biosynthetic pathway and catalyzes the head to tail condensation of 4 porphobilinogen molecules into the linear hydroxymethylbilane. HMBS gene mutations cause errors in pyrrole metabolism which in turn lead to the autosomal dominant disease acute intermittent porphyria.

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