

32-2440: HMBS Recombinant Protein

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

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount : 20 µg

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

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

Storage condition : 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.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSMSGNGN AAATAEENSP KMRVIRVGTR KSQLARIQTD SVVATLKASY PGLQFEIIM STTGDKILDT ALSKIGEKSL FTKELEHALE KNEVDLVVHS LKDLPTVLPP GFTIGAICKR ENPHDAVVFH PKFVGKTLET LPEKSVVGTS SLRRAAQLQR KFPHLEFRSI RGNLNTRLRK LDEQQEFSAI ILATAGLQRM GWHNRVGQIL HPEECMYAVG QGALGVEVRA KDQDILDVVG VLHDPETLLR CIAERAFLRH LEGGCSVPVA VHTAMKDGQL YLTGGVWSLD GSDSIQETMQ ATIHVPAQHE DGPEDDPQLV GITARNIPRG PQLAAQNLGI SLANLLLSKG AKNILDVARQ LNDAAH.

