



Recombinant Protein Technical Manual

Recombinant Human HMBS Protein (His Tag)

RPES2398

Product Data:

Product SKU: RPES2398

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P08397

Protein Information:

Molecular Mass: 40.5 kDa

AP Molecular Mass: 47 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Porphobilinogen Deaminase; PBG-D; Hydroxymethylbilane Synthase; HMBS; Pre-Uroporphyrinogen Synthase; HMBS; PBGD; UPS

Immunogen Information:

Sequence: Ser2-His361

Background:

Porphobilinogen Deaminase (HMBS) is a member of the HMBS family. PBGD is the third enzyme of the heme biosynthetic pathway and catalyzes the head to tail condensation of four porphobilinogen molecules into the linear hydroxymethylbilane. HMBS is involved in the production of heme, which is important for all of the body's organs, although it is most abundant in the blood, bone marrow, and liver. In addition, Heme is an essential component of iron-containing proteins called hemoproteins, including hemoglobin. Defects in PBGD are the cause of acute intermittent porphyria.