

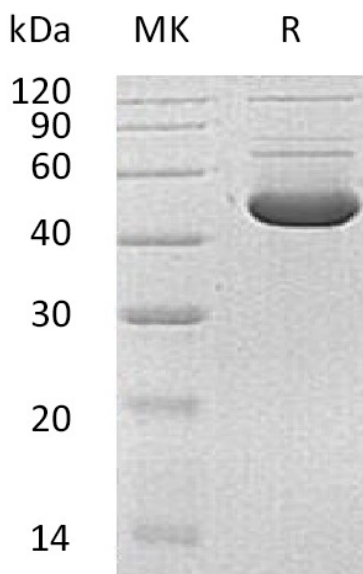
**Product Name: Recombinant Human HMBS (C-6His)**  
**Catalog #: PHH0797**



## Summary

|                                 |                                                                                                                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>                     | HMBS/Porphobilinogen deaminase                                                                                                                                                      |
| <b>Purity</b>                   | Greater than 95% as determined by reducing SDS-PAGE                                                                                                                                 |
| <b>Endotoxin level</b>          | <1 EU/μg as determined by LAL test.                                                                                                                                                 |
| <b>Construction</b>             | Recombinant Human Porphobilinogen Deaminase is produced by our Mammalian expression system and the target gene encoding Ser2-His361 is expressed with a 6His tag at the C-terminus. |
| <b>Accession #</b>              | P08397                                                                                                                                                                              |
| <b>Host</b>                     | Human Cells                                                                                                                                                                         |
| <b>Species</b>                  | Human                                                                                                                                                                               |
| <b>Predicted Molecular Mass</b> | 40.5 KDa                                                                                                                                                                            |
| <b>Formulation</b>              | Supplied as a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 5% Trehalose, 5% mannitol, 50% Glycerol, 0.1% Tween80, pH7.4.                                                        |
| <b>Shipping</b>                 | The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.                                                                  |
| <b>Stability&amp;Storage</b>    | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.                |
| <b>Reconstitution</b>           |                                                                                                                                                                                     |

## SDS-PAGE image



**Product Name: Recombinant Human HMBS (C-6His)**  
**Catalog #: PHH0797**

---



### **Alternative Names**

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

### **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.

### **Note**

For Research Use Only , Not for Diagnostic Use.