

## Recombinant Equine Hemoglobin Beta (HBb), N-His

Cat. No.: AP7F78

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

### Product Overview

BioVenic's Recombinant Equine Hemoglobin Beta (HBb), N-His is a recombinant protein expressed from *E.coli* expression system. Its predicted molecular weight is 19.8 kDa. The purity is greater than 95% (SDS-PAGE). The endotoxin level is <1 EU/µg (LAL). It can be used as a positive control or as an immunogen.

### Specifications

Type	Recombinant Protein
Species	Equine
Expression System	<i>E.coli</i>
Purity	>95% (SDS-PAGE)
Endotoxin	<1 EU/µg (LAL)
Predicted Molecular Weight	19.8 kDa
Molecular Weight	20 kDa
Physical State	Lyophilized
Formulation	PBS, pH 7.4, containing 0.01% SKL, 5% Trehalose.

### Target Information

Hemoglobin is a complex molecule composed of four subunits: two alpha globin chains and two beta globin chains. Each globin chain is bound to a heme group, which contains an iron atom at its center. The iron atom is what allows hemoglobin to bind to oxygen. Hemoglobin, beta is encoded by the *HBB* gene in horses. Hb is the protein contained in red blood cells that is responsible for delivery of oxygen to the tissues. It is found in almost all vertebrates.

Protein	Equine Hemoglobin Beta (HBb)
Protein Synonym	HBB; Globin A1; HB-B; HBD; CD113t-C; Beta Globin; Spinorphin
Gene ID	<a href="#">100054109</a>
UniProt ID	<a href="#">F6RDD3</a>

## Shipping and Storage

This product is shipped with dry ice. Avoid repeated freezing and thawing. Store for 4 weeks at 2-8°C, for 12 months at -80°C.

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## User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10 mM PBS (pH 7.4) to a concentration of 0.1-1.0 mg/mL. Aliquote the reconstituted solution to minimise freeze-thaw cycles.

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The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.