

Recombinant Mouse Hbb-bt Protein, MYC/DDK-tagged

Cat. No. Hbb-bt-028M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse hemoglobin, beta adult major chain (Hbb-b1), full length, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a beta polypeptide chain found in adult hemoglobin, which consists of a tetramer of two alpha chains and two beta chains, and which functions in the transport of oxygen to various peripheral tissues. This gene is one of a cluster of beta-hemoglobin genes that are distally regulated by a locus control region, and which are organized along the chromosome in the order of their developmental expression. In mouse, two major strain-specific haplotypes of the beta-globin gene cluster are found - a "single" haplotype found in C57BL/-type strains, which includes two highly similar adult beta-globin genes, beta s and beta t, and a "diffuse" haplotype found in strains such as BALB/c and 129Sv, which includes two somewhat diverse adult beta-globin genes, beta-major and beta-minor. This gene represents the beta t adult gene found in the "single" haplotype. Primary chromosome 7 of the mouse reference genome assembly, which is derived from C57BL/6 strain mice, represents the "single" haplotype, while the "diffuse" haplotype is represented in the reference genome collection by the BALB/c strain alternate contig, NT_095534.1.
Molecular Mass	16.2 kDa

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Purity	>80%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Full Length	Full L.

GENE INFORMATION

Gene Name	Hbb-bt hemoglobin, beta adult t chain [<i>Mus musculus</i> (house mouse)]
Official Symbol	Hbb-bt
Synonyms	Hbb-bt; hemoglobin, beta adult t chain; Beta-t; hemoglobin, beta adult t chain; beta t
Gene ID	101488143
mRNA Refseq	NM_008220
Protein Refseq	NP_032246
UniProt ID	P02088

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