

Recombinant Human HBG1 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. HBG1-040H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HBG1 MS Standard C13 and N15-labeled recombinant protein (NP_000550) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The gamma globin genes (HBG1 and HBG2) are normally expressed in the fetal liver, spleen and bone marrow. Two gamma chains together with two alpha chains constitute fetal hemoglobin (HbF) which is normally replaced by adult hemoglobin (HbA) at birth. In some beta-thalassemias and related conditions, gamma chain production continues into adulthood. The two types of gamma chains differ at residue 136 where glycine is found in the G-gamma product (HBG2) and alanine is found in the A-gamma product (HBG1). The former is predominant at birth. The order of the genes in the beta-globin cluster is: 5'-epsilon -- gamma-G -- gamma-A -- delta -- beta-3'.
Molecular Mass	16.1 kDa
AA Sequence	MGHFTTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIM GNPKVKAHGKKVLTSLGDAIKHLDDLKGTFAQLSEHLCDKLHVDPENFKLLGNVLVT VLAIHFGKEFTPEVQASWQKMVTGVASALSSRYHTRTRPLEQKLISEEDLAANDILDY KDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	HBG1 hemoglobin subunit gamma 1 [Homo sapiens (human)]
Official Symbol	HBG1
Synonyms	HBG1; hemoglobin subunit gamma 1; HBG-T2; HBGA; HBGR; HSGGL1; PRO2979; hemoglobin subunit gamma-1; A-gamma globin; gamma A hemoglobin; gamma globin; gamma-1-globin; hb F Agamma; hemoglobin gamma-1 chain; hemoglobin gamma-a chain; hemoglobin, gamma A; hemoglobin, gamma, regulator of;
Gene ID	3047
mRNA Refseq	NM_000559
Protein Refseq	NP_000550
MIM	142200
UniProt ID	P69891

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