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Product datasheet for PH303084

hemoglobin subunit gamma 1 (HBG1) (NM_000559) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HBG1 MS Standard C13 and N15-labeled recombinant protein (NP_000550)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203084
Predicted MW:	16.1 kDa
Protein Sequence:	>RC203084 protein sequence Red=Cloning site Green=Tags(s) MGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPKVKAHGKKVLT SLGDAIKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMVTGVAS ALSSRYH TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000550
RefSeq Size:	584
RefSeq ORF:	441
Synonyms:	HBG-T2; HBGA; HBGR; HSGGL1; PRO2979
Locus ID:	3047
UniProt ID:	P69891, D9YZU8

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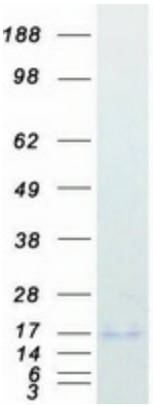
Cytogenetics: 11p15.4

Summary: 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'. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified HBG1 protein (Cat# [TP303084]). The protein was produced from HEK293T cells transfected with HBG1 cDNA clone (Cat# [RC203084]) using MegaTran 2.0 (Cat# [TT210002]).