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32-3939: HBA2 Recombinant Protein

Alternative Name : Hemoglobin alpha chain,hemoglobin alpha 2,hemoglobin subunit alpha,Alpha-globin,alpha-2 globin,HBH.

Description

Source : E.coli. HBA2 Human Recombinant produced in E. coli is a single polypeptide chain containing 179 amino acids (1-142) and having a molecular mass of 19.5 kDa.HBA2 is fused to a 37 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. HBA2 is a member of the globin family. HBA2 takes part in oxygen transport from the lung to the different peripheral tissues. The coding sequences of HBA2 and HBA1 are equal but have a small difference over the 5' untranslated regions and the introns, and a large difference over the 3' untranslated regions. HbA is constituted from two alpha chains and two beta chains which in standard adult life hold about 97% of the total hemoglobin; alpha chains associate with delta chains to create HbA-2 that with HbF (fetal hemoglobin) form the remaining 3% of adult hemoglobin. Alpha thalassemia is caused by removal of each of the alpha genes or removal of both HBA2 and HBA1; nondeletion alpha thalassemias has also been reported.

Product Info

Amount :	20 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	The HBA2 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 2mM DTT, 2M urea and 20% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMVL SPADKTNVKA AWGKVGAHAG EYGAEALERM FLSFPTTKTY FPHFDLSHGS AQVKGHGKKV ADALTNAVAH VDDMPNALSA LSDLHAHKLR VDPVNFKLLS HCLLVTLAAH LPAEFTPAVH ASLDKFLASV STVLTSKYR

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