9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

HBA2 Human

Hemoglobin, Alpha 2 Human Recombinant
RCP0996

Product Overview

Name	HBA2 Human
Description	
Hemoglobin, Alpha 2 Human Recombinant	
Accession (Primary)	P69905
Synonyms	
Hemoglobin alpha chain, hemoglobin alpha 2, hemoglobin subunit alpha, Alpha-globin, alpha-2 globin, HBH.	
Introduction	
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.	
Source	
E.coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The HBA2 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 2mM DTT, 2M urea and 20% glycerol.	
Stability	
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.	
Purity	
Greater than 90% as determined by SDS-PAGE.	
Amino acid sequence	
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSH MVL SPADKTNVKA AWGKVGAHAG EYGAEALERM	

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FLSFPTTKTY FPHFDLSHGS AQVKGHGKKV ADALTNAVAH VDDMPNALSA LSDLHAHKLR VDPVNFKLLS HCLLVTLAAH LPAEFTPAVH ASLDKFLASV STVLTSKYR

Precautions

HBA2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P69905)