
Product Data Sheet

Product Name: HBG1 Human
 Cat. No.: GP23620
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HBGA; HBGR; HSGGL1; PRO2979; Hemoglobin subunit gamma-1; Gamma-1-globin; Hb F Agamma; Hemoglobin gamma-1 chain; Hemoglobin gamma-A chain; HBG1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMGHFTEE DKATITSLWG KVNVEDAGGE TLGRLLVVYP WTQRFFDSFG NLSSASAIMG NPKVKAHGKK VLTSLGDATEK HLDDLKGTFA QLSEHCDKL HVDPENFKLL GNVLVTVLAI HFGKEFTPEV QASWQKMVTA VASALSSRYH.		
Formulation	The HBG1 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol.		

Introduction

The gamma globin genes which are HBG1 and HBG2, usually expressed in the fetal liver, spleen and bone marrow. 2 gamma chains together along with 2 alpha chains comprise fetal hemoglobin (HbF) which is normally replaced by mature hemoglobin (HbA) at birth. Gamma chain production continues into adulthood in several beta-thalassemias and linked situations. 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.

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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HBG1 Human Recombinant produced in E. coli is a single polypeptide chain containing 170 amino acids (1-147) and having a molecular mass of 18kDa. HBG1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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