
Product Data Sheet

Product Name: HBQ1 Human

Cat. No.: GP23622

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Hemoglobin Theta 1; Hemoglobin Theta-1 Chain; Hemoglobin Subunit Theta-1; Theta-1-globin.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMALSAED RALVRALWKK LGSNMGVYTT EALERTFLAF PATKTYFSHL DLSPGSSQVR AHGQKVADAL SLAVERLDDL PHALSALSHL HACQLRVDPA SFQLLGHCLL VTLARHYPGD FSPALQASLD KFLSHVISAL VSEYR		
Formulation	The HBQ1 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 10% glycerol.		

Introduction

HBQ1 is a member of the Hemoglobin family. Hemoglobin is a 66.7 kDa protein attached to four iron-binding, methenelinked tetrapyrrole rings (heme). The globin part of Hemoglobin contains 2 alpha chains and 2 beta chains organized as couples creating a tetramer. Every one of the 4 globin chains covalently connects with a heme group. The bonds between alpha and beta chains are frailer than between parallel globin chains, thus creating a cleavage plane which is vital for oxygen binding and release. Relaxation of the alpha1-beta2 cleavage plane results in high affinity for oxygen.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

Background

HBQ1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 165 amino acids (1-142) and having a molecular mass of 17.9kDa.

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

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