
Product Data Sheet

Product Name: Myoglobin His Human
 Cat. No.: GP23994
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PVALB; MGC13548.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGLSDGEWQL VLNVWGKVEA DIPGHGQEVL IRLFKGHPET LEKFDKFKHL KSEDEMKASE DLKKHGATVL TALGGILKKK GHHEAEIKPL AQSHATKHKI PVKYLEFISE CIIQVLQSKH PGDFGADAQG AMNKALELFR KDMASNYKEL GFQG		
Formulation	The MB protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 1mM DTT, 100mM NaCl and 20% glycerol.		

Introduction

Myoglobin, mitochondrial precursor is a cytosolic oxygen-binding protein in charge of the storage and diffusion of oxygen within myocytes. The largest expression of MB is in the skeletal and cardiac muscle. MB operates in various functions in muscular oxygen supply, such as oxygen storage, facilitated diffusion, and myoglobin-mediated oxidative phosphorylation.

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. Please avoid freeze thaw cycles.

Background

MB produced in E.Coli is a single, non-glycosylated polypeptide chain containing 174 amino acids (1-154a.a.) and having a molecular mass of 19.3kDa. MB is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

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