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## Product Data Sheet

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Product Name: CRYAB Human  
 Cat. No.: GP25057  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CRYA2; CTPP2; HSPB5; Crystallin Alpha B; CRYAB.		
Amino Acid Sequence	MDIAIHHPWI RRPFFPFHSP SRLFDQFFGE HLLSDLFPT STSLSPFYLR PPSFLRAPSWFDTGLSEMRL EKDRFSVNLV VKHFSPEELK VKVLGDVIEV HGKHEERQDE HGFISREFHRKYRIPADVDP LTITSSLSSD GVLTVNGPRK QVSGPERTIP ITREEKPAVT AAPKK.		
Formulation	The CRYAB protein (1mg/ml) solution contains 20mM Tris-HCl buffer pH-7.5, 50mM NaCl and 1mM EDTA.		

### Introduction

Alpha crystallins are composed of two gene products ; alpha-A and alpha-B, for acidic and basic, respectively. Alpha crystallins can be induced by heat shock and are members of the small heat shock protein (sHSP also known as the HSP20). They act as molecular chaperones and hold them in in large soluble aggregates. These heterogeneous aggregates consist of 30-40 subunits; the alpha-A and alpha-B subunits have a 3:1 ratio, respectively. Two additional function of a-crystallins are an autokinase activity and participation in the intracellular architecture. Alpha-B is expressed widely in many tissues and organs and occurs in many neurological diseases.

### 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

Recombinant CRYAB produced in E.Coli is a single, non-glycosylated polypeptide chain containing 175 amino acids and having a molecular mass of 20.1kDa. CRYAB is purified

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

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by proprietary chromatographic techniques.

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