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### Recombinant human Cytoglobin/CYGB protein

Catalog Number: ATGP0592

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-190aa

#### UniProt No.

O8WWM9

#### **NCBI Accession No.**

AAH29798

#### **Alternative Names**

CYGB, Cytoglobin, HGB, Histoglobin, STAP, Stellate cell activation associated protein

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

23.5 kDa (210aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

CYGB is a globin molecule located in the brain and most notably utilized in marine mammals. It is thought to be a method of protection under conditions of hypoxia. The predicted function of cytoglobin is the modulation of oxygen and nitric oxide metabolism or scavenging free radicals within a cell. Recombinant human CYGB, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

#### **Amino acid Sequence**

<MGSSHHHHHH SSGLVPRGSH> MEKVPGEMEI ERRERSEELS EAERKAVOAM WARLYASCED VGVAILVRFF



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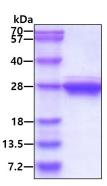
VNFPSAKQYF SQFKHMEDPL EMERSPQLRK HACRVMGALN TVVENLHDPD KVSSVLALVG KAHALKHKVE PVYFKILSGV ILEVVAEEFA SDFPPETQRA WAKLRGLIYS HVTAAYKEVG WVQQVPNATT PPATLPSSGP

#### **General References**

Hankeln T., et al. (2002) Mol Biol Evol. 19(4):416-21 Gazdar AF., et al. (2008) Cancer Res. 68(18):7448-56

### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

