

Recombinant human Cytoglobin/CYGB protein

Catalog Number: ATGP0592

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-190aa

UniProt No.

Q8WWM9

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 SGLVPRGSH> MEKVPGEMEI ERRERSEELS EAERKAVQAM WARLYASCED VGVAILVRFF

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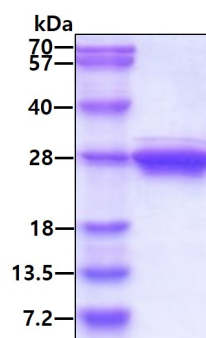
VNFPSAKQYF SQFKHMEDPL EMERSPLRK HACRVMGALN TVVENLHDPD KVSSVLALVG KAHALKHKVE PVYFKILSGV
ILEVVAEEFA SDFPPETQRA WAKLRGLIYS HVTAAYKEVG WVQQVPNATT PPATLPSSGP

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



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