

Recombinant mouse Hemoglobin zeta/HBZ protein

Catalog Number: ATGP3740

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-142aa

UniProt No.

P06467

NCBI Accession No.

NP_034535

Alternative Names

Hemoglobin subunit zeta, Alpha-like embryonic globin chain x, Hemoglobin zeta chain, Zeta-globin, HBZ1, HBZ-T1, Hba-x

PRODUCT SPECIFICATION

Molecular Weight

18.3 kDa (162aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM MES buffer (pH 6.0) containing 0.1M NaCl, 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

Hba-x, also known as Hemoglobin subunit zeta (Hbz), is belongs to the globin family. Zeta-globin is alpha-like hemoglobin. The Hba-x polypeptide is synthesized in the yolk sac of the early embryo, while alpha-globin is produced throughout fetal and adult life. Hba-x gene includes five functional genes and two pseudogenes. The order of genes is: 5' -zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 -alpha-1 - theta1 - 3'. Recombinant mouse Hba-x fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MSLMKNERAI IMSMWEKMAA QAEPIGTETL ERLFCSTPQT KTYFPHFDLH HGSQQLRAHG
FKIMTAVGDA VKSIDNLSSA LTKLSELHAY ILRVDPVNFK LLSHCLLVTM AARFPADFTP EVHEAWDKFM SILSSILTEK YR

General References

Lau ET., et al. (2001) Prenat. Diagn. 21(7): 529-39

Kidd RD., et al. (2001) Biochemistry. 40(51):15669-75

DATA

SDS-PAGE

(kDa)

70

57

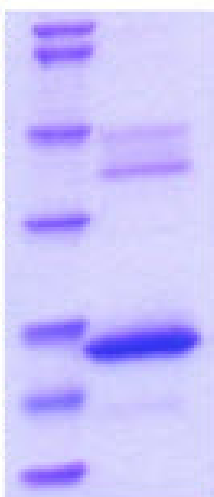
40

28

18

13.5

8.5



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

15% SDS-PAGE (3ug)