

Recombinant human HOPX protein

Catalog Number: ATGP1639

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-73aa

UniProt No.

Q9BPY8

NCBI Accession No.

NP_631957

Alternative Names

Homeodomain-only protein, CAMEO, HOD, HOP, LAGY, NECC1, OB1, SMAP31, TOTO

PRODUCT SPECIFICATION

Molecular Weight

10.8 kDa (97aa) 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

HOPX, also known as homeodomain-only protein, acts via its interaction with SRF, thereby modulating the expression of SRF-dependent cardiac-specific genes and cardiac development. This protein prevents SRF-dependent transcription either by inhibiting SRF binding to DNA or by recruiting histone deacetylase (HDAC) proteins that prevent transcription by SRF. Overexpression causes cardiac hypertrophy. Recombinant human HOPX protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

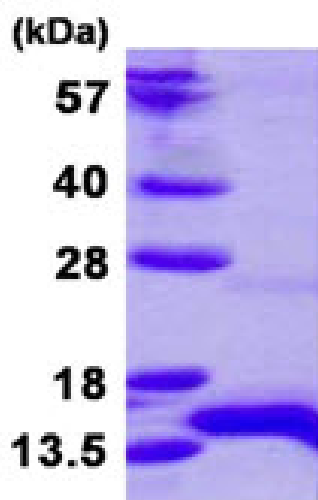
MGSSHHHHHH SSSLVPRGSH MGSMSAETA SGPTEDQVEI LEYNFNKVDK HPDSTTLCLI AAEAGLSEEE TQKWFQRLA
KWRRSEGLPS ECRSVTD

General References

Adu J., et al. (2002) Mech. Dev. 119:S43-S47
Lemaire F., et al. (2007) Br. J. Cancer. 91:258-261

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)