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.



Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSHMSAETA SGPTEDQVEI LEYNFNKVDK HPDSTTLCLI AAEAGLSEEE TQKWFKQRLA 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

(kDa)	3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.
57	
40 📥	
28 📥	
18 🕳	
13.5	

