Recombinant Human HOP Homeobox, His-tagged

Cat. No. HOPX-6951H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HOPX protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-73aa
Description	HOPX 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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol.
Molecular Mass	10.8 kDa (97aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMSAETA SGPTEDQVEI LEYNFNKVDK HPDSTTLCLI AAEAGLSEEE TQKWFKQRLA KWRRSEGLPS ECRSVTD
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE

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Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	HOPX HOP homeobox [Homo sapiens]
Official Symbol	HOPX
Synonyms	HOPX; HOP homeobox; homeodomain-only protein; homeobox only domain; HOP; LAGY; NECC1; OB1; SMAP31; odd homeobox 1 protein; odd homeobox protein 1; lung cancer-associated Y protein; not expressed in choriocarcinoma clone 1; not expressed in choriocarcinoma protein 1; HOD; TOTO; CAMEO; MGC20820;
Gene ID	84525
mRNA Refseq	NM_001145459
Protein Refseq	NP_001138931
MIM	607275
UniProt ID	Q9BPY8
Chromosome Location	4q12
Function	sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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