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HOPX Human

Catalog #:PRPS-1165

For research use only.

Description:HOPX Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 97 amino acids (1-73 a.a) and having a molecular mass of 10.8kDa.HOPX is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Synonyms: Homeodomain-only protein, Lung cancer-associated Y protein, Not expressed in choriocarcinoma protein 1, Odd homeobox protein 1, HOPX, HOD, HOP, LAGY, NECC1, OB1, TOTO, CAMEO, SMAP31.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSHMSAETA SGPTEDQVEI LEYNFNKVDK HPDSTTLCLI AAEAGLSEEE TQKWFKQRLA KWRRSEGLPS ECRSVTD.

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:
HOPX protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Homeodomain-only protein (HOPX) functions via its interaction with SRF, thus modulating the expression of SRF-dependent cardiac-specific genes and cardiac development. HOPX inhibits SRF-dependent transcription either by hindering SRF binding to DNA or by engaging histone deacetylase (HDAC) proteins which prevent transcription by SRF. HOPX is a homeodomain protein which lacks certain conserved residues required for DNA binding. HOPX overexpression causes cardiac hypertrophy.

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