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HOPX Human

HOP homeobox Human Recombinant
RCP1048

Product Overview

Name	HOPX Human

Description

HOP homeobox Human Recombinant

Accession (Primary)	Q9BPY8

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.

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.

Source

Escherichia Coli.

Physical Appearance

Sterile filtered colorless solution.

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.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGSH MSAETA SGPTEDQVEI LEYNFNKVDK HPDSTTLCLI AAEAGLSEEE TQKWFKQRLA KWRRSEGLPS ECRSVTD.

Precautions

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HOPX Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9BPY8)