
Product Data Sheet

Product Name: HOPX Human
 Cat. No.: GP23671
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSAETA SGPTEDQVEI LEYNFNKVDK HPDSTTLCLI AAEAGLSEEE TQKWFQRLA KWRRSEGLPS ECRSVTD.		
Formulation	HOPX protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.		

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.

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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