

32-4326: Recombinant Human NK3 Homeobox 1

Alternative Name : Homeobox protein Nkx-3.1, Homeobox protein NK-3 homolog A, NKX3-1, NKX3.1, NKX3A, NKX3, BAPX2.

Description

Source : Escherichia Coli. NKX3-1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 257 amino acids (1-234 a.a) and having a molecular mass of 28.7kDa. NKX3-1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. NK3 Homeobox1 (NKX3-1) is a homeobox-containing transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and may act as a transcriptional repressor. The NKX3-1 transcription factor functions as a negative regulator of epithelial cell growth in prostate tissue. NKX3-1 has an imperative role in normal prostate development, regulating proliferation of glandular epithelium and in the formation of ducts in prostate. In addition, NKX3-1 functions as a tumor suppressor controlling prostate carcinogenesis, as shown by its ability to inhibit proliferation and invasion activities of PC-3 prostate cancer cells. Abnormal expression of NKX3-1 is linked with prostate tumor progression.

Product Info

Amount :	20 µg
Purification :	Greater than 85.0% as determined by SDS-PAGE.
Content :	NKX3-1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2M UREA and 10% glycerol.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSSLVPRGSH MGSMLRVPEP RPGEAKAEGA APPTPSKPLT SFLIQDILRD GAQRQGGRTS SQRQRDPEPE PEPEPEGGRS RAGAQNQDLS TGPRAAPEEA ETLAETEPER HLGSYLLDSE NTSGALPRLP QTPKQPQKRS RAAFSHTQVI ELERKFSHQK YLSAPER AHL AKNLKL TETQ VKIWFQNRRY KTKRKQLSSE LGDLEKHSSL PALKEEAFSR ASLVSVYNSY PYPYLYCVG SWSPAFW.