9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

NKX3-1 Human

NK3 Homeobox 1 Human Recombinant
RCP1502

Product Overview

Name	NKX3-1 Human
Description	
NK3 Homeobox 1 Human Recombinant	
Accession (Primary)	Q99801
Synonyms	
Homeobox protein Nkx-3.1, Homeobox protein NK-3 homolog A, NKX3-1, NKX3.1, NKX3A, NKX3, BAPX2.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
NKX3-1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2M UREA 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 85.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MLRVPEP RPGEAKAEGA APPTPSKPLT SFLIQDILRD GAQRQGGRTS SQRQRDPEPE PEPEPEGGRS RAGAQNDQLS TGPRAAPEEA ETLAETEPER HLGSYLLDSE NTSGALPRLP	

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QTPKQPQKRS RAAFSHTQVI ELERKFSHQK YLSAPERAHL AKNLKLTETQ VKIWFQNRRY KTKRKQLSSE LGDLEKHSSL PALKEEAFSR ASLVSVYNSY PYYPYLYCVG SWSPAFW.

Precautions

NKX3-1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q99801)