
Product Data Sheet

Product Name: NKX3-1 Human
 Cat. No.: GP24049
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Homeobox protein Nkx-3.1; Homeobox protein NK-3 homolog A; NKX3-1; NKX3.1; NKX3A; NKX3; BAPX2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMLRVPEP RPGEAKAEGA APPTPSKPLT SFLIQDILRD GAQRQGGRTS SQRQRDPEPE PEPEPEGGRS RAGAQNQDLS TGPRAAPEEA ETLAETEPER HLGSYLLDSE NTSGALPRLP QTPKQPQKRS RAAFSHTQVI ELERKFSHQK YLSAPER AHL AKNLKLTETQ VKIWFQNRRY KTKRKQLSSE LGDLEKHSSL PALKEEAFSR ASLVSVYNSY PYPYLYCVG SWSPAFW.		
Formulation	NKX3-1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2M UREA and 10% glycerol.		

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.

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%

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA