
Product Data Sheet

Product Name: PKNOX1 Human

Cat. No.: GP24191

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	pknox1c; PREP1; Homeobox protein PKNOX1; Homeobox protein PREP-1; PBX/knotted homeobox 1; PKNOX1.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MMATQTLSID SYQDGQQMQV VTELKTEQDP NCSEPDAEGV SPPPVESQTP MDVDKQAIYR HPLFPLLALL FEKCEQSTQG SEGTTASAFD VDIENFVRKQ EKEGKPFCE DPETDNLMMVK AIQVLRHLL ELEKVNELCK DFCSRYIACL KTKMNSETLL SGEPGSPYSP VQSQQIQSAI TGTISPQGIV VPASALQQGN VAMATVAGGT VYQPVTVVTP QGQVVTQTLS PGTIRIQNSQ LQLQLNQDLS ILHQDDGSSK NKRGVLPKHA TNVMRSWLFQ HIGHPYPTED EKKQIAAQTN LTLQVNNWF INARRRILQP MLDSSCSETP KTKKKTAQNR PVQRFWPDSI ASGVAQPPPS ELTMSEGAVV TITTPVNMNV DSLQSLSSDG ATLAVQQVMM AGQSEDESVD STEEDAGALA PAHISGLVLE NSDSLQ.</p>		
Formulation	PKNOX1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 10% glycerol.		

Introduction

PBX/Knotted 1 Homeobox 1 (PKNOX1) is a DNA-binding factor which takes part in the regulation of the transcriptional activity of AP-1 containing promoters. PKNOX1, which is also known as UEF3, PRP-1 and p64, is a Homeobox protein. PKNOX1 forms stable complexes containing PBX proteins which synergize with AP-1 binding factors.

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.

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

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Background

PKNOX1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 456 amino acids (1-436 a.a) and having a molecular mass of 49.7kDa. PKNOX1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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