
Product Data Sheet

Product Name: MXD3 Human
 Cat. No.: GP23970
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	BHLHC13; MAD3; MYX; Max dimerization protein 3; Max dimerizer 3; Class C basic helix-loop-helix protein 13; bHLHc13; Max-associated protein 3; Max-interacting transcriptional repressor MAD3; MXD3 Human; MXD3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMEPLASN IQVLLQAAEF LERREREAEH GYASLCPHRS PGPIHRRKKR PPQAPGAQDS GRSVHNELEK RRRRAQLKRCL ERLKQQMPLG ADCARYTTLS LLRRARMHIQ KLEDQEQRAR QLKERLRKSKQ QSLQRQLEQL RGLAGAAERE RLRADSLDSS GLSSERSDSD QEELEVDVES LVFGGEAELL RGFVAGQEHS YSHGGGAWL.		
Formulation	The MXD3 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

MAX Dimerization Protein 3 (MXD3) belongs to the Myc superfamily of basic helix-loop-helix leucine zipper transcriptional regulators. MXD3 forms a heterodimer with the cofactor MAX that connects specific E-box DNA motifs in the promoters of target genes and regulates their transcription. Disturbance of the MAX-MXD3 complex is correlated with uncontrolled cell proliferation and tumorigenesis. Transcript variants of MXD3 encoding different isoforms have been described.

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

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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MXD3 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 229 amino acids (1-206) and having a molecular mass of 25.9 kDa. MXD3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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