Pituitary Homeobox 1 (pitx1) Xenopus Laevis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Pituitary homeobox 1 (pitx1), Recombinant Protein
Full Product Name	Recombinant Xenopus laevis Pituitary homeobox 1 (pitx1)
Product Gene Name	pitx1 recombinant protein
Product Synonym Gene Name	pitx1
Sequence	MDSFKGGMNL ERLPESLRPQ PSHDMATSFH LQRSSEARDP MDNSASESSD TEIAEKERTG EPKGEDGNGD DPSKKKKQRR QRTHFTSQQL QELEATFQRN RYPDMSMREE IAVWTNLTEA RVRVWFKNRR AKWRKRERNQ QMDLCKNGYV PQFSGLMQPY DEMYAGYPYN NWATKSLTPA PLSTKSFTFF NSMSPLSSQS MFSGPSSISS MSMPSSMGHS AVPGMANSSL NNINNLNNIS GSSLNSAMSS TGCPYGPPGS PYTVYRDTCN SSLASLRLKS KQHSTFGYSS LQSPASSLNA CQYNS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	34,128 Da
Sequence Positions	1-305, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9W751
Species	Xenopus laevis (African clawed frog)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pitx1 recombinant protein	MBS1468229 is a recombinant protein targeting pitx1. Also known as Recombinant Xenopus laevis Pituitary homeobox 1 (pitx1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pitx1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for pitx1. It may not necessarily be applicable to this product.

NCBI GI #	148233752
NCBI GeneID	394310
NCBI Accession #	NP_001080981.1
UniProt Primary Accession #	Q9W751
UniProt Secondary Accession #	Q9DEN6; Q9IA98

UniProt Related Accession #	Q9W751
GenBank Nucleotide #	NM_001087512.1
NCBI Official Full Name	pituitary homeobox 1
NCBI Official Synonym Full Names	paired like homeodomain 1 L homeolog
NCBI Official Symbol	pitx1.L
NCBI Official Synonym Symbols	pitx1; pitx-1; xPitx1; Xpitx-1; pitx1-A; X-PITX-1
UniProt Protein Name	Pituitary homeobox 1
UniProt Synonym Protein Names	Homeobox protein PITX1; X-PITX-1; xPitx1; Paired-like homeodomain transcription factor 1
Protein Family	Pituitary homeobox
UniProt Gene Name	pitx1
UniProt Synonym Gene Names	X-PITX-1; xPitx1
NCBI Protein Information	pituitary homeobox 1
UniProt Comments for pitx1	Sequence-specific transcription factor that binds gene promoters and activates their transcription. May play a role in the development of anterior structures, and in particular, the brain and facies and in specifying the identity or structure of hindlimb.
Research Articles on pitx1	**1.** Pitx proteins activate Shroom3 transcription and Pitx-responsive regulatory elements appeear in the genomic DNA upstream of Shroom3 in Xenopus.
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