Transcription Factor E2F5 (E2F5) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcription factor E2F5 (E2F5), Recombinant Protein
Full Product Name	Recombinant Human Transcription factor E2F5 (E2F5)
Product Gene Name	E2F5 recombinant protein
Product Synonym Gene Name	E2F5
Sequence	MAAAEPASSG QQAPAGQGQG QRPPPQPPQA QAPQPPPPPQ LGGAGGGSSR HEKSLGLLTT KFVSLLQEAK DGVLDLKAAA DTLAVRQKRR IYDITNVLEG IDLIEKKSKN SIQWKGVGAG CNTKEVIDRL RYLKAEIEDL ELKERELDQQ KLWLQQSIKN VMDDSINNRF SYVTHEDICN CFNGDTLLAI QAPSGTQLEV PIPEMGQNGQ KKYQINLKSH SGPIHVLLIN KESSSSKPVV FPVPPPDDLT QPSSQSLTPV TPQKSSMATQ NLPEQHVSER SQALQQTSAT DISSAGSISG DIIDELMSSD VFPLLRLSPT PADDYNFNLD DNEGVCDLFD VQILNY
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	20,192 Da
Sequence Positions	1-346, 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.
OMIM	600967
3D Structure	ModBase 3D Structure for Q15329
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for E2F5 recombinant protein	This protein is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several evolutionarily conserved domains that are present in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein is differentially phosphorylated and is expressed in a wide variety of human tissues. It has higher identity to E2F4 than to other family members. Both this protein and E2F4 interact with tumor suppressor proteins p130 and p107, but not with pRB. Alternative splicing results in multiple variants encoding different isoforms.
Other Notes	Small volumes of E2F5 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.
Searchable Terms for E2F5 purchase	MBS1482311 is a recombinant protein targeting E2F5. Also known as Recombinant Human Transcription factor E2F5 (E2F5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for E2F5. It may not necessarily be applicable to this product.

NCBI GI #	134142809
NCBI GeneID	1875
NCBI Accession #	NP_001077057.1
UniProt Primary Accession #	Q15329
UniProt Secondary Accession #	Q16601; Q92756; E9PBN9
UniProt Related Accession #	Q15329
GenBank Nucleotide #	NM_001083588.1
NCBI Official Full Name	transcription factor E2F5 isoform 2
NCBI Official Synonym Full Names	E2F transcription factor 5
NCBI Official Symbol	E2F5
NCBI Official Synonym Symbols	E2F-5
UniProt Protein Name	Transcription factor E2F5
Protein Family	Transcription factor
UniProt Gene Name	E2F5
UniProt Synonym Gene Names	E2F-5
NCBI Protein Information	transcription factor E2F5
NCBI Summary for E2F5	The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several evolutionarily conserved domains that are present in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein is differentially phosphorylated and is expressed in a wide variety of human tissues. It has higher identity to E2F4 than to other family members. Both this protein and E2F4 interact with tumor suppressor proteins p130 and p107, but not with pRB. Alternative splicing results in multiple variants encoding different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for E2F5	Transcriptional activator that binds to E2F sites, these sites are present in the promoter of many genes whose products are involved in cell proliferation. May mediate growth factor-initiated signal transduction. It is likely involved in the early responses of resting cells to growth factor stimulation. Specifically required for multiciliate cell differentiation: together with MCIDAS and E2F5, binds and activate genes required for centriole biogenesis.
Research Articles on E2F5	**1.** FOXN3 functions as a tumor suppressor in hepatocellular carcinoma by downregulating the expression of E2F5.
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