Transcription Initiation Factor TFIID Subunit 5 (TAF5) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcription initiation factor TFIID subunit 5 (TAF5), Recombinant Protein
Full Product Name	Recombinant Human Transcription initiation factor TFIID subunit 5 (TAF5)
Product Gene Name	TAF5 recombinant protein
Product Synonym Gene Name	TAF5
Sequence	MAALAEEQTE VAVKLEPEGP PTLLPPQAGD GAGEGSGGTT NNGPNGGGGN VAASSSTGGD GGTPKPTVAV SAAAPAGAAP VPAAAPDAGA PHDRQTLLAV LQFLRQSKLR EAEEALRREA GLLEEAVAGS GAPGEVDSAG AEVTSALLSR VTASAPGPAA PDPPGTGASG ATVVSGSASG PAAPGKVGSV AVEDQPDVSA VLSAYNQQGD PTMYEEYYSG LKHFIECSLD CHRAELSQLF YPLFVHMYLE LVYNQHENEA KSFFEKFHGD QECYYQDDLR VLSSLTKKEH MKGNETMLDF RTSKFVLRIS RDSYQLLKRH LQEKQNNQIW NIVQEHLYID IFDGMPRSKQ QIDAMVGSLA GEAKREANKS KVFFGLLKEP EIEVPLDDED EEGENEEGKP KKKKPKKDSI GSKSKKQDPN APPQNRIPLP ELKDSDKLDK IMNMKETTKR VRLGPDCLPS ICFYTFLNAY QGLTAVDVTD DSSLIAGGFA DSTVRVWSVT PKKLRSVKQA SDLSLIDKES DDVLERIMDE KTASELKILY GHSGPVYGAS FSPDRNYLLS SSEDGTVRLW SLQTFTCLVG YKGHNYPVWD TQFSPYGYYF VSGGHDRVAR LWATDHYQPL RIFAGHLADV NCTRFHPNSN YVATGSADRT VRLWDVLNGN CVRIFTGHKG PIHSLTFSPN GRFLATGATD GRVLLWDIGH GLMVGELKGH TDTVCSLRFS RDGEILASGS MDNTVRLWDA IKAFEDLETD DFTTATGHIN LPENSQELLL GTYMTKSTPV VHLHFTRRNL VLAAGAYSPQ
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	80,508 Da
Sequence Positions	1-800, 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	601787
3D Structure	ModBase 3D Structure for Q15542
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TAF5 recombinant protein	Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is transcription factor IID (TFIID), which binds to the core promoter to position the polymerase properly, serves as the scaffold for assembly of the remainder of the transcription complex, and acts as a channel for regulatory signals. TFIID is composed of the TATA-binding protein (TBP) and a group of evolutionarily conserved proteins known as TBP-associated factors or TAFs. TAFs may participate in basal transcription, serve as coactivators, function in promoter recognition or modify general transcription factors (GTFs) to facilitate complex assembly and transcription initiation. This gene encodes an integral subunit of TFIID associated with all transcriptionally competent forms of that complex. This subunit interacts strongly with two TFIID subunits that show similarity to histones H3 and H4, and it may participate in forming a nucleosome-like core in the TFIID complex.

Other Notes	Small volumes of TAF5 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 TAF5 purchase	MBS1372779 is a recombinant protein targeting TAF5. Also known as Recombinant Human Transcription initiation factor TFIID subunit 5 (TAF5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAF5. It may not necessarily be applicable to this product.

NCBI GI #	21071067
NCBI GeneID	6877
NCBI Accession #	NP_008882.2
UniProt Primary Accession #	Q15542
UniProt Secondary Accession #	Q53EM4; Q5SYD5; Q86UZ7; Q9Y4K5; A8K5B4; B2RMR0; B7ZKJ6
UniProt Related Accession #	Q15542
GenBank Nucleotide #	NM_006951.4
NCBI Official Full Name	transcription initiation factor TFIID subunit 5 isoform 1
NCBI Official Synonym Full Names	TATA-box binding protein associated factor 5
NCBI Official Symbol	TAF5
NCBI Official Synonym Symbols	TAF2D; TAFII100; TAFII-100; TAF(II)100
UniProt Protein Name	Transcription initiation factor TFIID subunit 5
UniProt Synonym Protein Names	Transcription initiation factor TFIID 100 kDa subunit; TAF(II)100; TAFII-100; TAFII100
Protein Family	Transcription initiation factor
UniProt Gene Name	TAF5
UniProt Synonym Gene Names	TAF2D; TAF(II)100; TAFII-100; TAFII100
NCBI Protein Information	transcription initiation factor TFIID subunit 5
NCBI Summary for TAF5	Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is transcription factor IID (TFIID), which binds to the core promoter to position the polymerase properly, serves as the scaffold for assembly of the remainder of the transcription complex, and acts as a channel for regulatory signals. TFIID is composed of the TATA-binding protein (TBP) and a group of evolutionarily conserved proteins known as TBP-associated factors or TAFs. TAFs may participate in basal transcription, serve as coactivators, function in promoter recognition or modify general transcription factors (GTFs) to facilitate complex assembly and transcription initiation. This gene encodes an integral subunit of TFIID associated with all transcriptionally competent forms of that complex. This subunit interacts strongly with two TFIID subunits that show similarity to histones H3 and H4, and it may participate in forming a nucleosome-like core in the TFIID complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]
UniProt Comments for TAF5	TAFs are components of the transcription factor IID (TFIID) complex, PCAF histone acetylase complex and TBP-free TAFII complex (TFTC). TAFs components-TIIFD are essential for mediating regulation of RNA polymerase transcription. TAF5/TAFII100 interacts strongly with the histone H4-related TAF6/TAFII80 and the histone H3-related TAF9/TAFII31, as well as a stable complex comprised of both TAF5/TAFII80 and TAF6/TAFII31. Apparently weaker interactions of TAF5/TAFII100 with TBP, TAF1/TAFII250, TAF11/TAFII28, and TAF12/TAFII20, but not TAF7/TAFII55, also have been observed.
Research Articles on TAF5	**1.** results show that nonproductive binding of OGG1 to 8-oxoG in promoter sequences could be an epigenetic mechanism to modulate gene expression for a prompt innate immune response.

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