Recombinant Human TAF1, GST-tagged

Cat. No. TAF1-122H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TAF1, amino-acids 1400 – 1651, fused with GST-tag at N-terminal, was expressed in an E. coli expression system.
Species	Human
Source	E.coli
ProteinLength	1400-1651 a.a.
Description	Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is the basal transcription factor 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 the largest subunit of TFIID. This subunit binds to core promoter sequences encompassing the transcription start site. It also binds to activators and other transcriptional regulators, and these interactions affect the rate of transcription initiation. This subunit contains two independent protein kinase domains at the N- and C-terminals, but also possesses acetyltransferase activity and can act as a ubiquitin-activating/conjugating enzyme. Mutations in this gene result in Dystonia 3, torsion, X-linked, a dystonia-parkinsonism disorder. Altern

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	ative splicing of this gene results in multiple transcript variants. This gene is part of a complex transcription unit (TAF1/DYT3), wherein some transcript variants share exon s with TAF1 as well as additional downstream DYT3 exons.
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol.
Molecular Mass	56.1 kDa
Purity	≥95% by SDS-PAGE
Applications	Useful for the study of bromodomain binding assays, screening inhibitors, and selectivity profiling.
Stability	>6 months at –80°C

GENE INFORMATION

Gene Name	TAF1 TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa [Homo sapiens (human)]
Official Symbol	TAF1
Synonyms	TAF1; OF; XDP; BA2R; CCG1; CCGS; DYT3; KAT4; P250; NSCL2; TAF2A; N-TAF1; TAFII250; DYT3/TAF1; TAFII-250; TAF(II)250; TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa; transcription initiation factor TFIID subunit 1; cell cycle gene 1 protein; cell cycle, G1 phase defect; TBP-associated factor 250 kDa; transcription factor TFIID p250 polypeptide; complementation of cell cycle block, G1-to-S; NP_004597.2; EC 2.7.11.1; NP_620278.1
Gene ID	6872

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mRNA Refseq	NM_004606
Protein Refseq	NP_004597
MIM	313650
UniProt ID	P21675
Chromosome Location	Xq13.1
Pathway	Basal transcription factors; RNA Polymerase II HIV Promoter Escape; RNA Polymerase II Transcription
Function	TBP-class protein binding; histone acetyl-lysine binding; protein serine/threonine kinase activity

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