

Recombinant Human TAF1, GST-tagged

Cat. No. TAF1-165H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TAF1 bromodomain 1 (1371-1496 aa) fused to a GST tag at the N-terminus
Species	Human
Source	E.coli
ProteinLength	1371-1496 a.a.
Description	The acetylation of histone lysine residues plays a crucial role in the epigenetic regulation of gene transcription. A bromodomain is a protein domain that recognizes acetylated lysine residues such as those on the N-terminal tails of histones. This recognition is often a prerequisite for protein-histone association and chromatin remodeling. These domains function in the linking of protein complexes to acetylated nucleosomes, thereby controlling chromatin structure and gene expression. Thus, bromodomains serve as “readers” of histone acetylation marks regulating the transcription of target promoters. TAF1 is a component of transcription factor IID, and binds to core promoter sequences at the transcription start site. TAF1 helps control transcription by both its kinase and histone acetyltransferase enzymatic activities. It interacts with transcriptional activators such as the androgen receptor to promote transcription. Disruption of TAF1 causes dystonia 3 (X-linked torsion dystonia) and decreased apoptosis. This protein product contains the first bromodomain of TAF1.
Form	Liquid. 50 mM Tris, pH 7.5, containing 500 mM sodium chloride, 5 mM β-

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mercaptoethanol and 5% glycerol.

Molecular Mass 41.7 kDa (1371-1496 aa + NT GST Tag)

Purity ≥95%

Storage Store at -80°C. Avoid repeated freeze and thaw cycles. Stable for 1 year.

GENE INFORMATION

Gene Name TAF1 TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa [Homo sapiens]

Official Symbol TAF1

Synonyms

TAF1; TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa; BA2R, CCG1, CCGS, dystonia 3 (with Parkinsonism) , DYT3, TAF2A, TATA box binding protein (TBP) associated factor, RNA polymerase II, A, 250kD; transcription initiation factor TFIID subunit 1; DYT3/TAF1; KAT4; NSCL2; TAFII250; TAFII-250; TAF(II)250; 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; transcription initiation factor TFIID 250 kDa subunit; OF; XDP; BA2R; CCG1; CCGS; DYT3; P250; TAF2A; N-TAF1;

Gene ID 6872

mRNA Refseq NM_004606

Protein Refseq NP_004597

MIM 313650

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UniProt ID	P21675
Chromosome Location	Xq13.1
Pathway	Basal transcription factors, organism-specific biosystem; Basal transcription factors, conserved biosystem; Disease, organism-specific biosystem; Gene Expression, organism-specific biosystem; HIV Infection, organism-specific biosystem; HIV Life Cycle, organism-specific biosystem; HIV-1 Transcription Initiation, organism-specific biosystem;
Function	ATP binding; TBP-class protein binding; histone acetyl-lysine binding; histone acetyltransferase activity; kinase activity; nucleotide binding; p53 binding; protein binding; protein serine/threonine kinase activity; sequence-specific DNA binding; transcription coactivator activity; transcription factor binding; contributes_to transcription regulatory region DNA binding; transferase activity;