

TAF1 recombinant protein

Recombinant TAF1 (1522-1656) protein

CATALOG #
AAA59684

HOST
E Coli

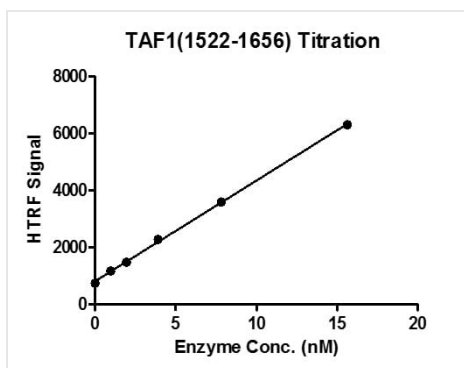
PRODUCT SYNONYMS

TAF1; Recombinant TAF1 (1522-1656) protein; TATA-Box Binding Protein Associated Factor 1; Cell Cycle Gene 1 Protein; TAF2A; TAF1 recombinant protein

PRODUCT SPECIFICATIONS

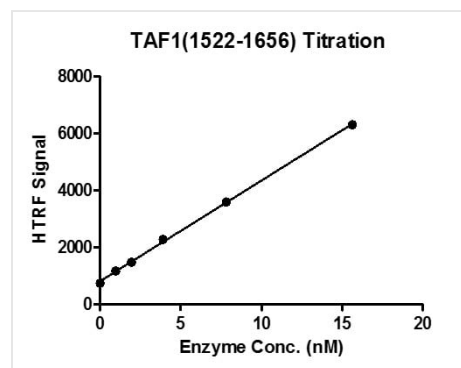
Host	E Coli
Form/Format	Recombinant TAF1 (1522-1656) protein is supplied in 25mM Tris pH8.0, 300mM NaCl, 10% glycerol.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	Recombinant TAF1 (1522-1656) is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



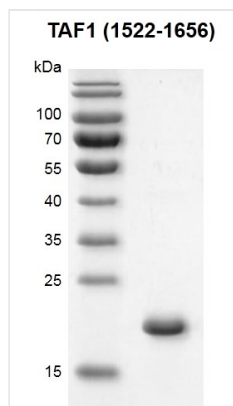
Application Data

Recombinant TAF1 (1522-1656) protein activity assay. 3 μ M histone peptide H3K18ac peptide was incubated with Recombinant TAF1 (1522-1656) protein in a reaction system containing 50 mM HEPES-NaOH pH 7.4, and 0.1% BSA for 1 hour at room temperature. DYKDDDDK antibody and SA-XL665 (each at 1:100 in reaction buffer) was added for 30 min. All operations were performed at RT. HTRF assay was used for detection of reaction products.



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SDS-PAGE

Recombinant TAF1 (1522-1656) protein gel. TAF1 (1522-1656) protein was run on a 12.5% SDS-PAGE gel and stained with Coomassie Blue. MW: 19.3 kDa Purity: ? 90%

ADDITIONAL INFORMATION

Related Product Information for TAF1 recombinant protein

Short Description: The peptide corresponding to amino acids 1522-1656 that contains the bromodomain sequences of TAF1 (accession number NP_004597.2) was expressed in E Coli and contains an N-terminal His-tag and C-terminal DYKDDDDK tag with an observed molecular weight of 21.75 kDa. It shows binding specificity for acetylated H3K14. TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor (TAF1) is the largest component and core scaffold of the TFIID basal transcription factor complex. TAF1 contains novel N- and C-terminal Ser/Thr kinase domains which can autophosphorylate or transphosphorylate other transcription factors. TAF1 also contains bromodomains for interaction with other proteins. The bromodomain functions as a 'reader' of epigenetic histone marks and regulates chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. TAF1 has been shown to phosphorylate threonine 55 of p53 which leads to MDM2-mediated degradation of p53. TAF1 also phosphorylates GTF2A1 and GTF2F1 on serine residues. In addition, TAF1 possesses DNA-binding activity and is essential for progression of the G1 phase of the cell cycle. Recombinant TAF1 (1522-1656) can be used in binding assays and inhibitor screening.

Background: TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor (TAF1) is the largest component and core scaffold of the TFIID basal transcription factor complex. TAF1 contains novel N- and C-terminal Ser/Thr kinase domains which can autophosphorylate or transphosphorylate other transcription factors. TAF1 also contains bromodomains for interaction with other proteins. The bromodomain functions as a 'reader' of epigenetic histone marks and regulates chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. TAF1 has been shown to phosphorylate threonine 55 of p53 which leads to MDM2-mediated degradation of p53. TAF1 also phosphorylates GTF2A1 and GTF2F1 on serine residues. In addition, TAF1 possesses DNA-binding activity and is essential for progression of the G1 phase of the cell cycle.

Product Categories/Family for TAF1 recombinant protein

[Recombinant Proteins](#); [Bromodomain](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	20357585
NCBI GeneID	6872
NCBI Accession #	NP_004597.2
NCBI GenBank Nucleotide #	NM_004606.3
UniProt Accession #	P21675 ; Q59FZ3 ; Q6IUZ1 ; Q70Q86 ; Q70Q87 ; Q70T00 ; Q70T01 ; Q70T02 ; Q70T03 ; A5CVD0
Molecular Weight	212,677 Da
NCBI Official Full Name	transcription initiation factor TFIID subunit 1 isoform 1
NCBI Official Synonym Full Names	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa
NCBI Official Symbol	TAF1

NCBI Official Synonym Symbols	OF; XDP; BA2R; CCG1; CCGS; DYT3; KAT4; P250; NSCL2; TAF2A; N-TAF1; TAFII250; DYT3/TAF1
NCBI Protein Information	transcription initiation factor TFIID subunit 1; 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; trans
UniProt Protein Name	Transcription initiation factor TFIID subunit 1
UniProt Gene Name	TAF1
UniProt Synonym Gene Names	BA2R; CCG1; CCGS; TAF2A; p250; TAF(II)250; TAFII-250; TAFII250
UniProt Entry Name	TAF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/taf1-recombinant-protein-e-coli/59684>