

TBP recombinant protein

Recombinant TBP protein

CATALOG # AAA60140	HOST Baculovirus
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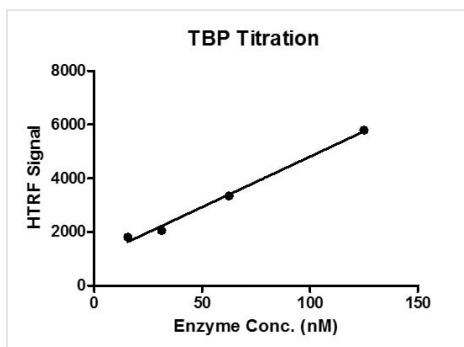
PRODUCT SYNONYMS

TBP; Recombinant TBP protein; HDL4; GTF2D; SCA17; TFIID; GTF2D1; TBP recombinant protein

PRODUCT SPECIFICATIONS

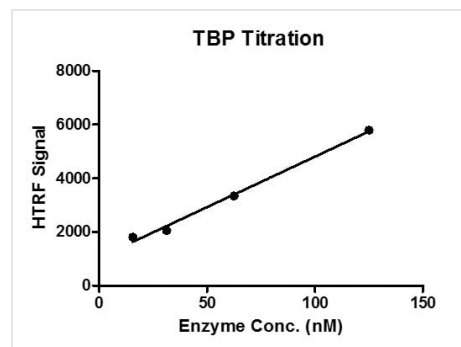
Host	Baculovirus
Form/Format	Recombinant TBP protein is supplied in 25mM HEPES-NaOH pH7.5, 500mM NaCl, 10% glycerol, 0.04% Triton X-100 and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
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



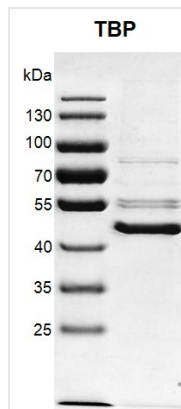
Application Data

HTRF assay for TBP activity 1 uM oligo dsDNA (DNA sequence: 5'-TCGTATAAAAGGC-3') was incubated with different concentrations of TBP protein in 10 ul system containing 50 mM HEPES-NaOH pH 7.5, 0.1% BSA for 1 hour, then 10 ul anti-DYKDDDDK antibody and SA-XL665 mixture (each 1:100 dilution in binding buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant TBP protein 10% SDS-PAGE Coomassie staining MW: 39 kDa Purity: >80%

ADDITIONAL INFORMATION

Related Product Information for TBP recombinant protein

Short Description: Recombinant human TBP protein was expressed in a baculovirus expression system as the full-length protein (accession number NP_003185.1) with an N-terminal DYKDDDDK tag. The molecular weight of the protein is 39 kDa. It is suitable for use in protein-protein interaction studies, in vitro transcription assays and binding assays.

Background: TBP (also known as TATA box binding protein, GTF2D, transcription initiation factor TFIID TBP subunit, TATA-binding factor, TF2D, TFIID or SCA17). RNA polymerase II is an enzyme found in eukaryotic cells composed of 12 subunits that catalyzes transcription of DNA. Transcription consists of three phases: initiation, elongation and termination. Transcription initiation involves TFIID, which is composed of TATA-binding protein (TBP) and TBP-associated factors (TAFs), as part of the RNA polymerase II pre-initiation complex (PIC). TBP binds to the TATA box sequence, which is located upstream of the transcription start site in some eukaryotic gene promoters, and helps position RNA polymerase II. TBP contains a string of glutamines at the N-terminus which affect DNA binding and the rate of transcription complex formation. TBP is also associated with RNA polymerase I and RNA polymerase III.

Product Categories/Family for TBP recombinant protein

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	285026518
NCBI GeneID	6908
NCBI Accession #	NP_003185.1
NCBI GenBank Nucleotide #	NM_003194
Molecular Weight	35,657 Da
NCBI Official Full Name	Homo sapiens TATA box binding protein (TBP), transcript variant 1, mRNA
NCBI Official Synonym Full Names	TATA box binding protein
NCBI Official Symbol	TBP
NCBI Official Synonym Symbols	HDL4; GTF2D; SCA17; TFIID; GTF2D1
NCBI Protein Information	TATA-box-binding protein; TATA sequence-binding protein; TATA-box binding protein N-terminal domain; TATA-box factor; transcription initiation factor TFIID TBP subunit

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.