

Active Recombinant Human General Transcription Factor IIB

Cat. No. GTF2B-1176H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Human

Source E.coli

Description The transcription factor IIB (TFIIB) is an essential factor for transcription by RNA Polymerase II. TFIIB has been shown to be required for selective binding of RNA Polymerase II, TFIIF and TFIID-DNA complex, and for specifying the start site of transcription. Human TFIIB is a single, 35 kDa polypeptide, homologous to yeast factor ϵ , the product of the SUA7 gene. Isolated from an *E. coli* strain that carries the coding sequence for human TFIIB under the control of T7 promoter. Recombinant TFIIB has been used for in vitro transcription assays, gel mobility shift assay. Protein is greater than 95% homogeneous and contains no detectable protease, DNase, and RNase activity.

Usage For in vitro use only.

Form Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 100 mM KCl, 0.2 mM EDTA, 1 mM DTT, 20% glycerol.

Activity 1 ng is sufficient for gel mobility shift assay in a 20 μ l reaction to super-shift TBP-DNA complex, 10 ng are sufficient for a 25 μ l reconstituted transcription assay and 100 ng are sufficient for a protein-protein interaction assay detected by immuno-blot system.

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Purity > 95% by SDS-PAGE.

Storage Quality guaranteed for 12 months, store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name GTF2B general transcription factor IIB [Homo sapiens]

Synonyms GTF2B; general transcription factor IIB; TF2B; TFIIB; RNA polymerase II transcription factor IIB; S300-II; General transcription factor TFIIB

Gene ID 2959

mRNA Refseq NM_001514

Protein Refseq NP_001505

MIM 189963

UniProt ID Q00403

Chromosome Location 1p22-p21

Pathway Basal transcription factors; Gene Expression; HIV Infection; Transcription

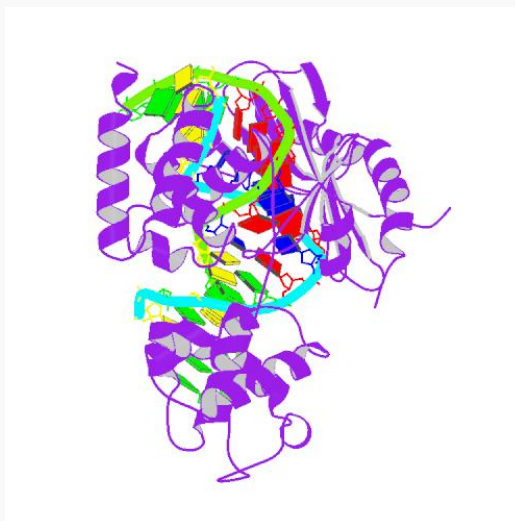
Function DNA binding; general RNA polymerase II transcription factor activity; metal ion binding; protein binding; transcription regulator activity; translation initiation factor activity; zinc ion binding

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