

Active Recombinant Human General Transcription Factor IIA, 1, 19/37kDa

Cat. No. GTF2A1-1170H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source E.coli

Description

The Transcription Factor IIA (TFIIA) has been shown to bind to the TBP-DNA complex and to increase the affinity of TBP for the TATA element. Human TFIIA consists of three subunits of 35 kDa (α -subunit), 19 kDa (β -subunit) and 12 kDa (γ -subunit). The α - and β -subunits are derived from the product, p55, of a single gene by an unknown mechanism. However, recombinant p55, in combination with a 12 kDa subunit (γ -subunit), retains native TFIIA activity. The p55 subunit of TFIIA is isolated from a strain of *E. coli* that contains the coding sequence of human p55 of TFIIA under the control of T7 promoter. The p12 subunit of TFIIA is isolated from a strain of *E. coli* that contains the coding sequence for human TFIIA γ -subunit under the control of T7 promoter. Recombinant TFIIA can be used to super-shift TBP-DNA complex in a gel mobility shift assay and to stimulate activator-dependent transcription *in vitro*. TFIIA is greater than 95% pure and does not contain any detectable protease, DNase, or RNase activities.

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.

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Activity	1 ng is sufficient for a gel mobility shift assay in a 20 µl reaction, 20 ng are sufficient for in vitro transcription assay and 100 ng are sufficient for protein-protein interaction assays.
Purity	> 95% by SDS-PAGE.
Storage	Quality guaranteed for 12 months, store at -80°C. Avoid freeze / thaw cycles.
GENE INFORMATION	
Gene Name	GTF2A1 general transcription factor IIA, 1, 19/37kDa [Homo sapiens]
Synonyms	GTF2A1; general transcription factor IIA, 1, 19/37kDa; TF2A1; TFIIA; MGC129969; MGC129970; TFIIA alpha, p55, isoform 1; glucose regulated protein, 58kD pseudogene; TFIIA-42; Transcription initiation factor IIA subunit 1; Transcription initiation factor IIA alpha chain; TFIIA p35 subunit; TFIIA p19 subunit
Gene ID	2957
mRNA Refseq	NM_015859
Protein Refseq	NP_056943
MIM	600520
UniProt ID	P52655
Chromosome Location	14q31
Pathway	Basal transcription factors; Gene Expression; HIV Infection; Transcription

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Function

DNA binding; TATA-binding protein binding; general RNA polymerase II transcription factor activity; protein heterodimerization activity; transcription coactivator activity; transcription factor binding

PDB rendering based on 1nvp.

