

Active Recombinant Human General Transcription Factor IIA, 1, 19/37kDa, P12

Cat. No. GTF2A1-1174H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
Description	P12 is a small subunit of the transcription factor IIA and has been shown to be required for both basal and activated transcription. Recombinant p12, along with two other subunits (α and β) can potentiate transcriptional activation, whereas p12 along with β -subunit is able to function in an antirepression. P12 subunit of TFIIA is isolated from a strain of <i>E. coli</i> that contains the coding sequence for human TFIIA p12 under the control of T7 promoter.
Application	Recombinant p12 in combination with other subunits of TFIIA has been applied for in vitro transcription assays, gel mobility shift assays and protein-protein interaction assays.
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 and 20% glycerol.
Activity	1 ng of p12 is sufficient for a gel mobility shift assay, 10 ng are sufficient for transcription assay and 100 ng are sufficient for a protein-protein interaction assay.

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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 [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

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

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PDB rendering based
on 1nvp.

