

Active Recombinant Human GTF2A1, P19, GST-tagged

Cat. No. GTF2A1-1172H **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. GST-TFIIA (p19) is isolated from an *E. coli* strain that carries the coding sequence of TFIIA -subunit under the control of a T7 promoter. GST-TFIIA (p19) has been applied in 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 100 ng are sufficient for a protein-protein interaction assay.

Purity > 95% by SDS-PAGE.

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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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