

Active Recombinant Human General Transcription Factor IIF, Polypeptide 1, 74kDa

Cat. No. GTF2F1-1185H Lot. No. (See product label)

SPECIFICATION

Species Human

Source E.coli

Description

The transcription factor IIF (TFIIF) is a heterodimer, composed of 58 kDa (RAP74) and 26 kDa (RAP30) subunits. It was first identified through the ability to interact with immobilized RNA Polymerase II. In addition to its role in transcription initiation, TFIIF can increase the specificity and efficiency of RNA Polymerase II transcription, and can especially increase the rate of transcription elongation. Recombinant RAP74 protein is isolated from an *E. coli* strain that carries the coding sequence of human RAP74, the subunit of TFIIF under the control of T7 promoter. RAP74 is required for stimulation of the rate of RNA Polymerase II elongation through a direct interaction with pol II and for start site selection. RAP74 is heavily phosphorylated in vivo and can be phosphorylated by TAFII250, a subunit of TFIID. Protein is greater than 95% homogeneous and contains no detectable protease, DNase, and RNase activity.

Purity > 95% by SDS-PAGE.

Form Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 500 Mm KCl, 0.2 mM EDTA, 1 mM DTT, 20% glycerol.

Activity 1-10 ng is the amount sufficient for a gel mobility shift assay in a 20 µl reaction to form a D/B/Pol/74 complex, 20 ng are sufficient for reconstituted transcription assay

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

and 100 ng are sufficient for a protein-protein interaction assay.

Storage	Quality guaranteed for 12 months. Store at -80°C. Avoid freeze / thaw cycles.
Usage	For in vitro use only.

GENE INFORMATION

Gene Name	GTF2F1 general transcription factor IIF, polypeptide 1, 74kDa [Homo sapiens]
Synonyms	general transcription factor IIF, polypeptide 1, 74kDa; BTF4; RAP74; TF2F1; TFIIF; GTF2F1; general transcription factor IIF, polypeptide 1 (74kD subunit); TFIIF-alpha; General transcription factor IIF polypeptide 1 74 kDa subunit protein; Transcription initiation factor IIF subunit alpha; Transcription initiation factor RAP74
Gene ID	2962
mRNA Refseq	NM_002096
Protein Refseq	NP_002087
MIM	189968
UniProt ID	P35269
Chromosome Location	19p13.3
Pathway	Basal transcription factors; Gene Expression; HIV Infection; Influenza Infection; Transcription; mRNA Processing

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Function

general RNA polymerase II transcription factor activity; DNA binding; catalytic activity; transcription coactivator activity; transcription factor binding

PDB rendering based on 1f3u.



 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA