

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

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

SPECIFICATION

Product Overview

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 <i>E. coli</i> 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

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form a D/B/Pol/74 complex, 20 ng are sufficient for reconstituted transcription assay 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

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Function

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

PDB rendering based
on 1f3u.



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