

Active Recombinant Human GTF2E1, P56

Cat. No. GTF2E1-1180H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
Description	The human Transcription Factor IIE (TFIIE) is composed of 56 kDa (α) and 34 kDa (β) subunits and is shown to be a heterotetramer. The 56 kDa subunit contains a region similar to a zinc binding domain and a region sharing homology with the catalytic loop of a kinase domain. TFIIE binds to RNA Polymerase II in solution and joins the preinitiation complex probably concomitant with RNA Polymerase II and TFIIF. The recombinant protein is purified from an <i>E. coli</i> strain that contains the coding sequence of human TFIIE α-subunit under the control of T7 promoter. Although 56 kDa subunit of the TFIIE contains a zinc binding domain like region, both subunits are required to reconstitute the functional transcription factor. Protein is purified greater than 95% homogeneous and contains no detectable protease, DNase, and RNase activity.
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	20 ng are sufficient for an in vitro reconstituted transcription assay in the presence of 34 kDa subunit, 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 [GTF2E1 general transcription factor IIE, polypeptide 1, alpha 56kDa \[Homo sapiens \]](#)

Synonyms GTF2E1; general transcription factor IIE, polypeptide 1, alpha 56kDa; FE; TF2E1; TFIIIE-A; General transcription factor IIE subunit 1; TFIIIE-alpha; Transcription initiation factor IIE subunit alpha; General transcription factor IIE 56 kDa subunit

Gene ID [2960](#)

mRNA Refseq [NM_005513](#)

Protein Refseq [NP_005504](#)

MIM [189962](#)

UniProt ID [P29083](#)

Chromosome Location 3q21-q24

Pathway Basal transcription factors; Gene Expression; HIV Infection; Transcription

Function RNA polymerase II transcription factor activity; metal ion binding; protein binding; zinc ion binding

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