

Active Recombinant Human General Transcription Factor IIH, Polypeptide 1, 62kDa

Cat. No. GTF2H1-1187H Lot. No. (See product label)

SPECIFICATION

Species Human

Source E.coli

Description

TFIIH, a multisubunit complex is involved in several biological fundamental mechanisms of the cell: transcription, nucleotide excision repair, and cell cycle regulation. p62 is one of the six subunits that constitutes the core of TFIIH. Analysis of the expression of the p62 gene reveals an over-expression in testis tissue. This subunit of TFIIH participates in a variety of protein-protein interactions. For example, Rb competes with TBP and p62 for binding to E2F thus repressing E2F-mediated transactivation, herpes simplex virus VP16 and human p53, directly interact with the p62 subunit of TFIIH. In addition, TFIIH, via p62 phosphorylation is the major target for mitotic inactivation of transcription. Recombinant p62 protein is isolated from an *E. coli* strain that carries the coding sequence of human p62 under the control of a T7 promoter. p62 has been used for protein-protein interactions assays. 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, 100 Mm KCl, 0.2 mM EDTA, 1 mM DTT, 20% glycerol.

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Activity	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	GTF2H1 general transcription factor IIH, polypeptide 1, 62kDa [Homo sapiens]
Synonyms	general transcription factor IIH, polypeptide 1, 62kDa; BTF2; TFB1; TFIIH; GTF2H1; general transcription factor IIH, polypeptide 1 (62kD subunit); BTF2-p62; Basic transcription factor 2 62 kDa subunit; General transcription factor IIH polypeptide 1; TFIIH basal transcription factor complex p62 subunit
Gene ID	2965
mRNA Refseq	NM_001142307
Protein Refseq	NP_001135779
MIM	189972
UniProt ID	P32780
Chromosome Location	11p15.1-p14
Pathway	Basal transcription factors; Nucleotide excision repair; DNA Repair; Gene Expression; HIV Infection; Transcription; mRNA Processing

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Function

RNA polymerase II carboxy-terminal domain kinase activity; general RNA polymerase II transcription factor activity; DNA-dependent ATPase activity; protein binding; protein kinase activity

PDB rendering based on 1pfj.

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