

## Active Recombinant Human GTF2H1, His-tagged

**Cat. No.** GTF2H1-8459H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Recombinant Human GTF2H1, fused with His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | TFIIH, a multi-subunit 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 trans-activation ; 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. |
| <b>Form</b>             | 20 mM Tris-Cl, pH 7.9, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Bio-activity</b>     | 1 unit equals 1 ng of purified protein. 100 units are sufficient for a protein-protein interaction assay.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MATSSEEVLL IVKKVRQKKQ DGALYLMAER IAWAPEGKDR FTISHMYADI<br>KCQKISPEGK AKIQLQLVLH AGDTTNFHFHFS NESTAVKERD AVKDLLQQLL<br>PKFKRKANKE LEEKNRMLQE DPVLFQLYKD LVVSQVISAE EFWANRLNVN<br>ATDSSSTSNH KQDVGISAFAF LADVRPQTDG CNGLRYNLTS DIIESIFRTY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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PAVKMKYAEN VPHNMTEKEF WTRFFQSHYF HRDRLNTGSK DLFAECAKID  
 EKGLKTMVSL GVKNPLDLT ALEDKPLDEG YGISSVPSAS NSKSIKENS  
 AAIKRFNHH SAMVLAAGLR KQEAQNEQTS EPSNMDGNSG DADCFQPAVK  
 RAKLQESIEY EDLGKNNSVK TIALNLKKS RYYHGPTPIQ SLQYATSQDI  
 INSFQSIRQE MEAYTPKLTQ VLSSSAASST ITALSPGGAL MQGGTQQAIN  
 QMVPNDIQSE LKHLVAVGE LLRHFWSFCP VNTPFLEEKV VKMKSNLERF  
 QVTKLCPFQE KIRRQYLSTN LVSHIEEMLQ TAYNKLHTWQ SRRLMKKT

**Purity** >95% as determined by SDS-PAGE

**Storage** -80 °C

**Concentration** 750 µg/ml

**Shipping** Dry Ice

## GENE INFORMATION

**Gene Name** GTF2H1 general transcription factor IIH, polypeptide 1, 62kDa [ Homo sapiens ]

**Official Symbol** GTF2H1

**Synonyms** GTF2H1; general transcription factor IIH, polypeptide 1, 62kDa; general transcription factor IIH, polypeptide 1 (62kD subunit); general transcription factor IIH subunit 1; BTF2; BTF2 p62; basic transcription factor 2 62 kDa subunit; general transcription factor IIH polypeptide 1; TFIIH basal transcription factor complex p62 subunit; TFB1; TFIIH;

**Gene ID** 2965

**mRNA Refseq** NM\_005316

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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | NP_005307                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>                 | 189972                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>          | P32780                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 11p15.1-p14                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Pathway</b>             | Androgen Receptor Signaling Pathway, organism-specific biosystem; Basal transcription factors, organism-specific biosystem; Basal transcription factors, conserved biosystem; DNA Repair, organism-specific biosystem; Disease, organism-specific biosystem; Dual incision reaction in GG-NER, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem; |
| <b>Function</b>            | contributes_to DNA-dependent ATPase activity; contributes_to RNA polymerase II carboxy-terminal domain kinase activity; protein binding; contributes_to protein kinase activity;                                                                                                                                                                                                           |

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