Active Recombinant Human GTF2H1, His-tagged

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

SPECIFICATION

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

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	PAVKMKYAEN VPHNMTEKEF WTRFFQSHYF HRDRLNTGSK DLFAECAKID EKGLKTMVSL GVKNPLLDLT ALEDKPLDEG YGISSVPSAS NSKSIKENSN AAIIKRFNHH SAMVLAAGLR KQEAQNEQTS EPSNMDGNSG DADCFQPAVK RAKLQESIEY EDLGKNNSVK TIALNLKKSD RYYHGPTPIQ SLQYATSQDI INSFQSIRQE MEAYTPKLTQ VLSSSAASST ITALSPGGAL MQGGTQQAIN QMVPNDIQSE LKHLYVAVGE LLRHFWSCFP 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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Protein Refseq	NP_005307
MIM	189972
UniProt ID	P32780
Chromosome Location	11p15.1-p14
Pathway	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;
Function	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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