

Recombinant Mouse Gtf2h5 Protein, Myc/DDK-tagged

Cat. No. Gtf2h5-3327M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length general transcription factor IIH, polypeptide 5 (Gtf2h5), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Component of the general transcription and DNA repair factor IIH (TFIIH) core complex, which is involved in general and transcription-coupled nucleotide excision repair (NER) of damaged DNA and, when complexed to CAK, in RNA transcription by RNA polymerase II. In NER, TFIIH acts by opening DNA around the lesion to allow the excision of the damaged oligonucleotide and its replacement by a new DNA fragment. In transcription, TFIIH has an essential role in transcription initiation. When the pre-initiation complex (PIC) has been established, TFIIH is required for promoter opening and promoter escape. Phosphorylation of the C-terminal tail (CTD) of the largest subunit of RNA polymerase II by the kinase module CAK controls the initiation of transcription. Necessary for the stability of the TFIIH complex and for the presence of normal levels of TFIIH in the cell.
Molecular Mass	8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Gtf2h5 general transcription factor IIH, polypeptide 5 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Gtf2h5
Synonyms	Gtf2h5; general transcription factor IIH, polypeptide 5; D17Wsu155; D17Wsu155e; 2700017P07Rik; 2810432H05Rik; general transcription factor IIH subunit 5; TFB5 ortholog; TFIIH basal transcription factor complex TTD-A subunit
Gene ID	66467
mRNA Refseq	NM_181392
Protein Refseq	NP_852057
UniProt ID	Q8K2X8

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