

# Recombinant Full Length Human GAK Protein, C-Flag-tagged

Cat. No. GAK-1336HFL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human GAK Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	In all eukaryotes, the cell cycle is governed by cyclin-dependent protein kinases (CDKs), whose activities are regulated by cyclins and CDK inhibitors in a diverse array of mechanisms that involve the control of phosphorylation and dephosphorylation of Ser, Thr or Tyr residues. Cyclins are molecules that possess a consensus domain called the 'cyclin box.' In mammalian cells, 9 cyclin species have been identified, and they are referred to as cyclins A through I. Cyclin G is a direct transcriptional target of the p53 tumor suppressor gene product and thus functions downstream of p53. GAK is an association partner of cyclin G and CDK5. Alternative splicing results in multiple transcript variants encoding different isoforms.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	143 kDa
<b>AA Sequence</b>	MSLLQSALDFLAGPGSLGGASGRDQSDVFGQTVELGELRLRVRRLAEGGFVYVE AQDVGSGREYALKR LLSNEEEKNRAIQEVCFMKKLSGHPNIVQFCSAASIGKEESD TGQAEFLLLTELCKGQLVEFLKKMESR GPLSCDTVLKIFYQTCRAVQHMHRQKPPII HRDLKVENLLLSNQGTIKLCDFGSATTISHYPDYSWSAQR RALVEEIEITRNTTPMYR

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TPEIIDLYSNFPIGEKQDIWALGCILYLLCFRQHPFEDGAKLRIVNGKYSIPP HDTQYT  
 VFHSLIRAMLQVNPEERLSIAEVVHQLQEIAAARNVNPKSPITELLEQNGGYGSATLS  
 RGPPPP VGPAGSGYSGGLALAEYDQPYGGFLDILRGGTERLFTNLKDTSSKVIQSV  
 ANYAKGDLDISYITSRIAVM SFPAEGVESALKNNIEDVRLFLDSKHPGHYAVYNLSPR  
 TYRPSRFHNRVSECGWAARRAPHLHTLYNICR NMHAWLRQDHKNVCVVHCMDGR  
 AASAVAVCSFLCFRLFSTAEAAVYMFMSMKRCPPGIWPSHKRYIEYMC DMVAEEPI  
 TPHSKPILVRAVVMTPVPLFSKQRSGCRPFCEVYVGDERVASTSQEYDKMRDFKIE  
 DGKAVI PLGVTVQGDVLIVYHARSTLGGRLQAKMASMKMFQIQFHTGFVPRNATTV  
 KFAKYDLDACDIQEKYPDL FQVNLEVEVEPRDRPSREAPPWENSSMRGLNPKILFS  
 SREEQQDILSKFGKPELPRQPGSTAQYDAGAGS PEAEPDSDSPSSSADASRFL  
 HTLDWQEEKEAETGAENASSKESESALMEDRDESEVSDEGGSPISSEG QEPRADP  
 EPPGLAAGLVQQDLVFEVETPAVLPEPVPQEDGVDLLGLHSEVGAGPAVPPQACKA  
 PSSNTDL LSCLLGPPEAASQGPPEDLLSEDPDLLASPAPPLSVQSTPRGGPPAAAD  
 PFGPLLSSGNNSQPCSNPDL FGEFLNSDSVTVPPSFPSAHSAPPPSCSADFLHLG  
 DLPGEPSKMTASSSNPDLLGGWAAWTETAASAVAP TPATEGPLFSPGGQPAPCGS  
 QASWTKSQNPDPFADLGDLSGLQGSPAGFPPGGFIPKTATTPKGSSSWQ TSRPP  
 AQGASWPPQAKPPPACTQPRPNYASNFVIGAREERGVRAPSFAQKPKVSENDF  
 EDLLSNQGFSSRSDKKGPKTIAEMRKQDLAKDTPDKLKLDDWIEGKERNIRALLST  
 LHTVLWDGESRWTPVGMADLVAP  
 EQVKKHYRRAVLAVHPDKAAGQPYEQHAKMIFMELNDAWSEFENQGSRPLFSGPT  
 RTRRLEQKLISEEDLAANDILDYKDDDDKV

**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.

**Storage** Store at -80 centigrade.

**Concentration** >50 ug/mL as determined by microplate BCA method.

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<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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<b>Protein Families</b>	Druggable Genome, Protein Kinase
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<b>Full Length</b>	Full L.
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## GENE INFORMATION

<b>Gene Name</b>	GAK cyclin G associated kinase [ Homo sapiens (human) ]
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<b>Official Symbol</b>	GAK
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<b>Synonyms</b>	DNAJ26; DNAJC26
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<b>Gene ID</b>	2580
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<b>mRNA Refseq</b>	NM_005255.4
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<b>Protein Refseq</b>	NP_005246.2
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<b>MIM</b>	602052
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<b>UniProt ID</b>	O14976
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Coomassie blue staining of purified GAK protein.

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