

# Recombinant Human GAK Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** GAK-4030H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	GAK MS Standard C13 and N15-labeled recombinant protein (NP_005246) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<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>Molecular Mass</b>	143 kDa
<b>AA Sequence</b>	MSLLQSALDFLAGPGSLGGASGRDQSDVFGQTVELGELRLRVRRLAEGGFVVE AQDVGSGREYALKRLLSNEEEKNRAIQEVCFMKKLSGHPNIVQFCSAASIGKEESD TGQAEFLLLTELCKGQLVEFLKKMESRGPLSCDTVLIKIFYQTCRAVQHMHRQKPIIH RDLKVENLLLSNQGTIKLCDFGSATTISHYPDYSWSAQRRALVEEITRNTTPMYRTP

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EIIDLYSNFPIGEKGQDIWALGCILYLLCFRQHHPFEDGAKLRIVNGKYSIPPHDTQYTVF  
 HSLIRAMLQVNPEERLSIAEVVHQLQEIAAARNVNPKSPITELLEQNGGYGSATLSRG  
 PPPVGPAGSGYSGGLALAEYDQPYGGFLDILRGGTERLFTNLKDTSSKVIQSVANY  
 AKGDLDISYITSRIAIVMSFPAEGVESALKNNIEDVRLFLDSKHPGHYAVYNLSPRTYR  
 PSRFHNRVSECGWAARRAPHLHTLYNICRNMHAWLRQDHKNVCVVHCMDGRAAS  
 AVAVCSFLCFRLFSTAEAAVYMFMSMKRCPPIWPSHKRYIEYMCMDVAEEPITPHS  
 KPILVRAVVMTPVPLFSKQRSGCRPFCEVYVGDERVASTSQEYDKMRDFKIEDGKA  
 VIPLGVTVQGDVLIVYHARSTLGGRLQAKMASMKMFQIQFHTGFVPRNATTVKFAK  
 YDLDACDIQEKYPDLFQVNLEVEVEPRDRPSREAPPWENSSMRGLNPKILFSSREE  
 QQDILSKFGKPELPRQPGSTAQYDAGAGSPEAEPTDSDSPPSSSADASRFLHTLDW  
 QEEKEAETGAENASSKESEALMEDRDESEVSDEGGSPISSEGEPRADPEPPGLA  
 AGLVQQDLVFEVETPAVLPEPVPQEDGVDLLGLHSEVGAGPAVPPQACKAPSSNTD  
 LLSCLLGPPEAASQGPPEDLLSEDPLLLASPAPPLSVQSTPRGGPPAAADPFGLLP  
 SSGNNSQPCSNPDLFGFELNSDSVTVPPSFP SAHSAPPPSCSADFLHLGDLPGEPS  
 KMTASSNPDLLGGWAAWTETAASAVAPTPATEGPLFSPGGQPAPCGSQASWTKS  
 QNPDPFADLGDLSGLQGSPAGFPFGGFIKTTATPKGSSSWQTSRPPAQGASWP  
 PQA KPPP KACTQPRPNYASNFSVIGAREERGVRAPSFAQKPKVSEND FEDLLSNQG  
 FSSRS DKKGPKTIAEMRKQDLAKD TDPLKLLDWIEGKERNIRALLSTLHTVLWDG  
 ESRWTPVGMADLVAPEQVKKHYRRAVLAVHPDKAAGQPYEQHAKMIFMELNDAWS  
 EFENQGSRPLFSGPTRRTRRLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

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**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** GAK cyclin G associated kinase [ Homo sapiens (human) ]

**Official Symbol** GAK

**Synonyms** GAK; cyclin G associated kinase; cyclin-G-associated kinase; auxilin 2; DNAJC26; auxilin-2; DNAJ26; FLJ16629; FLJ40395; MGC99654;

**Gene ID** 2580

**mRNA Refseq** NM\_005255

**Protein Refseq** NP\_005246

**MIM** 602052

**UniProt ID** O14976

### SDS-PAGE



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