

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

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

SPECIFICATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EIIDLYSNFIPIGEKQDIWALGCILYLLCFRQHHPFEDGAKLRIVNGKYSIPPHDTQYTVF
 HSLIRAMLQVNPEERLSIAEVVHQLQEIAAARNVNPCKSPITELLEQNGGYGSATLSRG
 PPPVGPAGSGYSGGLALAEYDQPYGGFLDILRGGTERLFTNLKDTSSKVIQSVANY
 AKGDLDISYITSRIAVMSFPAEGVESALKNNIEDVRLFLDSKHDPGHYAVYNLSPRTYR
 PSRFHNRVSECGWAARRAPHLHTLYNICRNMHAWLRQDHKNVCVVHCMDGRAAS
 AVAVCSFLCFCLFSTAEAAVYMFMSMKRCPPIWPSHKRYIEYMCMDVAEEPITPHS
 KPILVRAVVMTPVPLFSKQSRGCRPFCEVYVGDERVASTSQEYDKMRDFKIEDGKA
 VIPLGTVQGDVLIVYHARSTLGGRLQAKMASMKMFQIQFHTGFVPRNATTVKFAK
 YDLDACDIQEKYPDLFQVNLEVEVEPRDRPSREAPPWENSSMRGLNPKILFSSREE
 QQDILSKFGKPELPRQPGSTAQYDAGAGSPEAEPTDSDSPSSSADASRFLHTLDW
 QEEKEAETGAENASSKESESALMEDRDESEVSDEGGSPISSEGQEPRADPEPPGLA
 AGLVQQDLVFEVETPAVLPEPVPQEDGVDLLGLHSEVGAGPAVPPQACKAPSSNTD
 LLSCLLGPPEAASQGPPEDLLSEDPLLLASPAPPLSVQSTPRGGPPAAADPFGPLLP
 SSGNNSQPCSNPDLFGEFLNSDSVTVPSPFSAHSAPPPSCSADFLHLGDLPGEPS
 KMTASSSNPDLLGGWAAWTETAASAVAPTPATEGPLFSPGGQPAPCGSQASWTKS
 QNPDPFADLGLDSSGLQGSPAGFPFGGFIPKTATTPKGSSSWQTSRPPAQGASWP
 PQAQPPPKACTQPRPNYASNFVIGAREERGVRAPSFAQKPKVSENFEDLLSNQG
 FSSRSDDKKGPKTIAEMRKQDLAKDTPDKLKLDDWIEGKERNIRALLSTLHTVLWDG
 ESRWTPVGMADLVAPEQVKKHYRRAVLAVHPDKAAGQPYEQHAKMIFMELNDAWS
 EFENQGSRPLFSGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

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

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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