

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

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

SPECIFICATION

Product Overview	Recombinant Full Length Human GAK Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	143 kDa
AA Sequence	MSLLQSALDFLAGPGSLGGASGRDQSDFGQTVELGELRLRVRRVLAEGGFAFVYE AQDVGSGREYALKR LLSNEEEKNRAIIQEVCFMKKLSGHPNIVQFCSAASIGKEESD TGQAEFLLLTELCKGQLVEFLKKMESR GPLSCDTVLKIFYQTCRAVQHMHRQKPPII HRDLKVENLLLSNQGTIKLCDFGSATTISHYPDYSWSAQR RALVEEEITRNTTPMYR

 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

TPEIIDLYSNFPIGEKQDIWALGCILYLLCFRQHPFEDGAKLRIVNGKYSIPP HDTQYT
VFHSLIRAMLQVNPEERLSIAEVVHQLQEIAAARNVNPKSPITELLEQNGGYGSATLS
RGPPPP VGPAGSGYSGGLALAEYDQPYGGFLDILRGGTERLFTNLKDTSSKVIQSV
ANYAKGDLDISYITSRIAVM SFPAEGVESALKNNIEDVRLFLDSKHGPHYAVYNLSPR
TYRPSRFHNRVSECGWAARRAPHLHTLYNICR NMHAWLRQDHKNVCVVHCMDGR
AASAVAVCSFLCFCLFSTAEAAVYMFSMKRCPPGIWPSHKRYIEMC DMVAEEPI
TPHSPILVRAVVMTPVPLFSKQSRSGCRPFCEVYVGDERVASTSQEYDKMRDFKIE
DGKAVI PLGVTVQGDVLIVYHARSTLGGRLQAKMASMKMFQIQFHTGFVPRNATTV
KFAKYDLDACDIQEKYPDL FQVNLEVEVEPRDRPSREAPPWENSSMRGLNPKILFS
SREEQQDILSKFGKPELPRQPGSTAQYDAGAGS PEAPTSDSDSPSSSADASRFL
HTLDWQEEKEAETGAENASSKESESALMEDRDESEVSDEGGSPISSEG QEPRADP
EPPGLAAGLVQQDLVFEVETPAVLPEPVPQEDGVDLLGLHSEVGAGPAVPPQACKA
PSSNTDL LSCLLGPPEAASQGPPEDLLSEDPLLLASPAPPLSVQSTPRGGPPAAAD
PFGPLLSSGNNSQPCSNPDL FGEFLNSDSVTVPPSFPSAHSAPPPSCSADFLHLG
DLPGEPSKMTASSSNPDLLGGWAAWTETAASAVAP TPATEGPLFSPGGQPAPCGS
QASWTKSQNPDPFADLGDLSGLQGSPAGFPPGGFIPKTATTPKGSSSWQ TSRPP
AQGASWPPQAKPPPKACTQPRPNYASNFSVIGAREERGVRAPSFAQKPKVSENF
EDLLSNQGFS SRSDKKGPKTIAEMRKQDLAKDTPDKLLDWIEGKERNIRALLST
LHTVLWDGESRWTPVGMADLVAP
EQVKKHYRRAVLAVHPDKAAGQPYEQHAKMIFMELNDAWSEFENQGSRLPFSGPT
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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Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Full Length	Full L.
GENE INFORMATION	
Gene Name	GAK cyclin G associated kinase [Homo sapiens (human)]
Official Symbol	GAK
Synonyms	DNAJ26; DNAJC26
Gene ID	2580
mRNA Refseq	NM_005255.4
Protein Refseq	NP_005246.2
MIM	602052
UniProt ID	O14976

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Coomassie blue staining of purified GAK protein.