

## Product datasheet for TP323572

### GAK (NM\_005255) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human cyclin G associated kinase (GAK), 20 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC223572 representing NM\_005255  
**Red**=Cloning site **Green**=Tags(s)

MSLLQSALDFLAGPGSLGGASGRDQSDVFGQTVELGELRLRVRRLAEGGFVYEAQDVGSGREYALKR  
LLSNEEEKNRAIIQEVCFMKKLSGHPNIVQFCSAASIGKEESDTGQAEFLLLTCLCKGQLVFLKMKESR  
GPLSCDVLKIFYQTCRAVQHMHRQKPPPIHRDLKVENLLSNQGTIKLCDFGSATTISHYPDYSWSAQR  
RALVEEITRNTTPMYRTEIIDLYSNFPIGEKQDIWALGCILYLLCFRQHPFEDGAKLRVNGKYSIPP  
HDTQYTVFHSIRAMLQVNPEERLSIAEVVHQLQEIAAARNVNPSPITELLEQNGGYGSATLSRGPPPP  
VGPAGSGYSGGLALAEYDQPYGGFLDILRGGTERLFTNLKDTSSKVIQSVANYAKGDLDISYITSRIAVM  
SFPAEGVESALKNNIEDVRLFLDSKHPGHYAVYNLSRPTYRPSRFHNRVSECGWAARRAPHLHTLYNICR  
NMHAWLRQDHKNVCVHCMDGRAASAVAVCSFLCFCLFSTAEAAVYMFSMKRCPPIGWPSHKRYIEMC  
DMVAEEPITPHSKPILVRAVVMTPVPLFSKQRSRCRPFCEVYVGDERVASTSQEYDKMRDFKIEDGKAVI  
PLGVTVQGDVLIVYHARSTLGGRLQAKMASMKMFQIQFHTGFVPRNATTVKFAKYDLDACDIQEKYDDL  
FQVNLEVEVEPRDRPSREAPPWENSSMRGLNPKILFSSREEQQDILSKFGKPELPRQPQGSTAQYDAGAGS  
PEAEPTDSDSPSSADASRFLHTLDWQEEKAETGAENASSKESESALMEDRDESEVSDEGGSPISSEG  
QEPRADPEPPGLAAGLVQQDLVFEVETPAVLPEPVPQEDGVDLLGLHSEVGAGPAVPPQACKAPSSNTDL  
LSCLLGPPEAASQGPPEDLLEDPLLLASPAPPLSVQSTPRGGPPAAADPFGLLPSSGNNSQPCSNPDL  
FGEFLNSDSVTVPPSFPSAHSAPPPSCSADFLHLGDLPGEPSKMTASSNPDLLGGWAAWTETAASAVAP  
TPATEGPLFSPGGQPAPCGSQASWTKSQNPDPFADLGDLSGLQGSPAGFPFGGFIKPTATTPKGSSSWQ  
TSRPPAQGASWPPQAKPPPACTQPRPNYASNFVIGAREERGVRAPSFAQKPKVSENDFFEDLLSNQGF  
SRSDKKGPKTIAEMRKQDLAKDTPDKLKLDDWIEGKERNIRALLSTLHTVLWDGESRWTPVGMADLVAP  
EQVKKHYRRAVLAVHPDKAAGQPYEQHAQMIFMELNDAWSEFENQGSRPLF

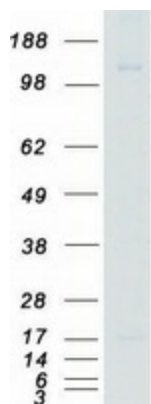
**SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK  
**Predicted MW:** 143 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method



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<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005246</a>
<b>Locus ID:</b>	2580
<b>UniProt ID:</b>	<a href="#">O14976</a>
<b>RefSeq Size:</b>	4331
<b>Cytogenetics:</b>	4p16.3
<b>RefSeq ORF:</b>	3933
<b>Synonyms:</b>	DNAJ26; DNAJC26
<b>Summary:</b>	<p>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. [provided by RefSeq, Dec 2015]</p>
<b>Protein Families:</b>	Druggable Genome, Protein Kinase

**Product images:**

Coomassie blue staining of purified GAK protein (Cat# TP323572). The protein was produced from HEK293T cells transfected with GAK cDNA clone (Cat# [RC223572]) using MegaTran 2.0 (Cat# [TT210002]).