

Product datasheet for PH323572

GAK (NM_005255) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GAK MS Standard C13 and N15-labeled recombinant protein (NP_005246)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223572
Predicted MW:	143 kDa
Protein Sequence:	>RC223572 representing NM_005255 Red=Cloning site Green=Tags(s)

MSLLQSALDFLAGPGLGGASGRDQSDVFVGTVELGELRLRVRVLAEGGFVYEAQDVGSGREYALKR
LLSNEEKNRAIIQEVCFMKKLSGHPNIVQFCSAASIGKEESDTGQAEFLLLTELCKGQLVEFLKKMESR
GPLSCDTVLKIFYQTCRAVQHMHRQKPPIIHRDLKVENLLL SNQGTIKLCDFGSATTISHYPDYSWSAQR
RALVEEITRNTTPMYRTPEIIDLYSNFPIGEKQDIWALGCILYLLCFRQHPFEDGAKLRIVNGKYSIPP
HDTQYTVFHSLIRAMLQVNPEERLSIAEVVHQLQEIAAARNVNPKSPITELLEQNGGYGSATLSRGPPPP
VGPAGSGYSGGLALAEYDQPYGGFLDILRGTERLFTNLKDTSSKVIQSVANYAKGDLDISYITSRIAVM
SFPAGEVESALKNNIEDVRLFLDSKHPGHYAVYNLSPRTYRPSRFHNRVSECGWAARRAPHLHTLNYICR
NMHAWLRQDHKNVCVHCMDGRAASAVAVCSFLCFCRLFSTAEAAVYMF SMKRCPPGIWPSHKRYIEYMC
DMVAEEPITPHSKPILVRAVVMTPVPLFSKQRSGCRPFCEVYVGDERSVASTSQEYDKMRDFKIEDGKAVI
PLGVTVQGDVLIYIYHARSTLGGRLQAKMASMKMFQIQFHTGFVPRNATTVKFAKYDLDACDIQEKYPDL
FQVNLEVEVEPRDRPSREAPPWENSSMRGLNPKILFSSREEQQDILSKFGKPELPRQPGSTAQYDAGAGS
PEAEPTSDSPSSADASRFLHTLDWQEEKEAETGAENASSKESESALMEDRDESEVSDEGGSPISSEG
QEPRADPEPPGLAAGLVQQDLVFEVETPAVLPEVPQEDGVDLLGLHSEVGAGPAVPPQACKAPSSNTDL
LSCLLGPPEAASQGPEDLLSEDPLLLASPAPPLSVQSTPRGGPPAAADPFGLLPSSGNNQPCSNPDL
FGEFLNSDSVTVPPSFPSAHSAPPPSCSADFLHLGDLPGEPSKMTASSNPDLLGGAAWTETAASAVAP
TPATEGPLFSPGGQPAPCGSQASWTKSQNPDPFADLGDLSGLQGSPAGFPFPGGFIPKATTPKGSSSWQ
TSRPPAQGASWPPQAKPPPKACTQPRPNYASNF SVIGAREERGVRAPSF AQKPKVSENFEDLLSNQGFS
SRSDKKGPKTIAEMRKQDLAKDTPDKLKLDDWIEGKERNIRALLSTLHTVLDWGESRWTPVGMADLVAP
EQVKKHYRRAVLAVHPDKAAGQPYEQHAKMIFMELNDAWSEFENQGSRPLF

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method



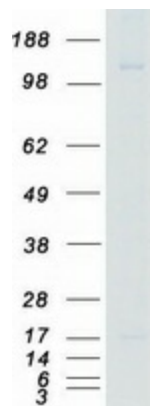
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Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_005246
RefSeq Size:	4331
RefSeq ORF:	3933
Synonyms:	DNAJ26; DNAJC26
Locus ID:	2580
UniProt ID:	O14976
Cytogenetics:	4p16.3

Summary: 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]

Protein Families: 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]).