Certificate of Analysis GAK, 10 μg

Recombinant Human GAK

Part Number: A30973

Lot Number: 2481590

Immediate Storage: -80°C

Shipping Conditions: dry ice

Description:

Recombinant human GAK (1-396) was expressed in insect cells using a N-terminal GST tag.

GAK Cyclin-G-associated kinase is a serine/threonine protein kinase and was originally identified as a protein that is associated with cyclin G. However, neither CDK5 nor GAK kinase activity is activated by cyclin G nor does GAK affect CDK5 kinase activity. GAK seems to act as an auxilin homolog that is involved in the uncoating of clathrin-coated vesicles by Hsc70 in non-neuronal cells. Expression oscillates slightly during the cell cycle, peaking at G1.

Accession Number:

The gene accession number for GAK is NP_005246.2.

Specific Activity:

Based on an activity assay, no activity claims can be made regarding this kinase. This kinase may or may not be suitable for an activity assay.

Concentration:

0.1 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard.

Calculated 1,420 nM

Aliases:

DNAJ26; DNAJC26



5781 Van Allen Way Carlsbad, CA 92008 Phone: 760.603.7200 www.thermofisher.com

Storage and Handling:

For maximum recovery please spin prior to use. Unless noted below, aliquots of the 5 ug, 10ug and 20ug sizes of kinase are not recommended as materials can be used in original packaging until exhausted. For larger sizes, the number of freeze/thaws may be reduced by preparing aliquots, aliquots below 20 μ L are not recommended. **Please never store a kinase diluted**. If properly stored at -80° C, this product is guaranteed for 6 months from date of purchase.

Storage Buffer:

50 mM Tris-HCI (pH 7.5), 150 mM NaCl, 10mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF and 25% Glycerol.

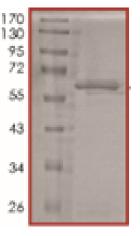
QUALITY ASSURANCE

Gel Information for GAK

Page Description: Run on an SDS-PAGE gel and stained with Coomassie[®].

Lane 1: Molecular Weight markers as labeled

Lane 2: GAK



Purity:

> 95% as determined by a Coomassie® blue stained SDS-PAGE gel.

Molecular Weight:

70.2 kDa. Calculated from the protein sequence(s).

Certificate of Analysis

Protein sequence alignment with reference sequence(s)

GenBank Accession Number: NP_005246.2

	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVL MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVL MS	
	DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPQIDKYLKSSKYIA DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPQIDKYLKSSKYIA	
201	WPLQGWQATFGGGDHPPKSD WPLQGWQATFGGGDHPPKSDLVPRGSMSLLQSALDFLAGPGSLGGASGRDQSDFVGQTVELGELRLRVRRVLAEGGFAFVYEAQDVGSGREYALKRLLSN 	
	EEEKNRAIIQEVCFMKKLSGHPNIVQFCSAASIGKEESDTGQAEFLLLTELCKGQLVEFLKKMESRGPLSCDTVLKIFYQTCRAVQHMHRQKPPIIHRDL EEEKNRAIIQEVCFMKKLSGHPNIVQFCSAASIGKEESDTGQAEFLLLTELCKGQLVEFLKKMESRGPLSCDTVLKIFYQTCRAVQHMHRQKPPIIHRDL	
220 401 175	KVENLLLSNQGTIKLCDFGSATTISHYPDYSWSAQRRALVEEEITRNTTPMYRTPEIIDLYSNFPIGEKQDIWALGCILYLLCFRQHPFEDGAKLRIVNG KVENLLLSNQGTIKLCDFGSATTISHYPDYSWSAQRRALVEEEITRNTTPMYRTPEIIDLYSNFPIGEKQDIWALGCILYLLCFRQHPFEDGAKLRIVNG	
	KYSIPPHDTQYTVFHSLIRAMLQVNPEERLSIAEVVHQLQEIAAARNVNPKSPITELLEQNGGYGSATLSRGPPPPVGPAGSGYSGGLALAEYDQPYGGF KYSIPPHDTQYTVFHSLIRAMLQVNPEERLSIAEVVHQLQEIAAARNVNPKSPITELLEQNGGYGSATLSRGPPPPVGPAGSGYSGGLALAEYDQPYGGF	
	LDILRGGTERLFTNLKDTSSKV LDILRGGTERLFTNLKDTSSKV	

* highlighted residues denote differences from the reference protein sequence(s).

pathelsmith.

Rachel Smith, Manager, QA/QC

Date: 27/May/2021

Coomassie® is a registered trademark of Imperial Chemical Industries.

For Research Use Only. Not for use in diagnostic procedures.