

Recombinant Human GAK protein, GST-tagged

Cat. No. GAK-15H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GAK(1-396 aa) fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1-396 a.a.
Description	Cyclin-G-associated kinase (GAK) 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. 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.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~68 kDa
Purity	>95%
Applications	Kinase Assay

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Stability	1 year at -80 centigrade from the date of shipment
Storage	Store at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	GAK cyclin G associated kinase [Homo sapiens]
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
Chromosome Location	4p16
Pathway	Clathrin derived vesicle budding, organism-specific biosystem; Golgi Associated

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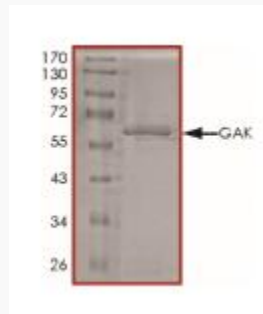
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Vesicle Biogenesis, organism-specific biosystem; Membrane Trafficking, organism-specific biosystem; trans-Golgi Network Vesicle Budding, organism-specific biosystem;

Function

ATP binding; cyclin binding; heat shock protein binding; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity; transferase activity, transferring phosphorus-containing groups;



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