

## Recombinant Human GAK protein, GST-tagged

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

### SPECIFICATION

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

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>           | 1 year at -80 centigrade from the date of shipment                                                                                                                                                                                       |
| <b>Storage</b>             | 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. |
| <b>Concentration</b>       | 0.1µg/µl                                                                                                                                                                                                                                 |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                          |
| <b>Gene Name</b>           | GAK cyclin G associated kinase [ Homo sapiens ]                                                                                                                                                                                          |
| <b>Official Symbol</b>     | GAK                                                                                                                                                                                                                                      |
| <b>Synonyms</b>            | GAK; cyclin G associated kinase; cyclin-G-associated kinase; auxilin 2; DNAJC26; auxilin-2; DNAJ26; FLJ16629; FLJ40395; MGC99654;                                                                                                        |
| <b>Gene ID</b>             | 2580                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | NM_005255                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>      | NP_005246                                                                                                                                                                                                                                |
| <b>MIM</b>                 | 602052                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>          | O14976                                                                                                                                                                                                                                   |
| <b>Chromosome Location</b> | 4p16                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | Clathrin derived vesicle budding, organism-specific biosystem; Golgi Associated                                                                                                                                                          |

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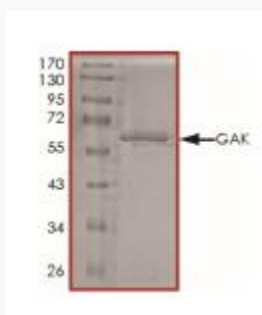
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Vesicle Biogenesis, organism-specific biosystem; Membrane Trafficking, organism-specific biosystem; trans-Golgi Network Vesicle Budding, organism-specific biosystem;

**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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