

## Recombinant Human PASK Protein (S949-S1323), Tag Free

Cat. No. PASK-1118H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human PASK (S949-S1323 end) Protein was expressed in Insect cell.   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | Insect Cells  |
| <b>ProteinLength</b>    | S949-S1323  |
| <b>Description</b>      | <p>Serine/threonine-protein kinase involved in energy homeostasis and protein translation. Phosphorylates EEF1A1, GYS1, PDX1 and RPS6. Probably plays a role under changing environmental conditions (oxygen, glucose, nutrition), rather than under standard conditions. Acts as a sensor involved in energy homeostasis: regulates glycogen synthase synthesis by mediating phosphorylation of GYS1, leading to GYS1 inactivation. May be involved in glucose-stimulated insulin production in pancreas and regulation of glucagon secretion by glucose in alpha cells; however such data require additional evidences. May play a role in regulation of protein translation by phosphorylating EEF1A1, leading to increase translation efficiency. May also participate in respiratory regulation.</p> |
| <b>Form</b>             | Liquid  |
| <b>Endotoxin</b>        | < 0.01 EU per µg of the protein   |
| <b>Purity</b>           | 90%   |

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|-----------------------|---|
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.   |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol   |
| <b>Shipping</b>       | It is shipped out with blue ice.  |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | PASK PAS domain containing serine/threonine kinase [ Homo sapiens (human) ]   |
| <b>Official Symbol</b> | PASK  |
| <b>Synonyms</b>        | PASK; PAS domain containing serine/threonine kinase; PAS domain-containing serine/threonine-protein kinase; KIAA0135; PASKIN; STK37; per-arnt-sim (PAS) domain kinase; DKFZp434O051; DKFZp686P2031; |
| <b>Gene ID</b>         | 23178   |
| <b>mRNA Refseq</b>     | NM_001252119  |
| <b>Protein Refseq</b>  | NP_001239048  |
| <b>MIM</b>             | 607505  |
| <b>UniProt ID</b>      | Q96RG2  |

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