

Recombinant Mouse Pask Protein, Myc/DDK-tagged

Cat. No. Pask-4682M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length PAS domain containing serine/threonine kinase (Pask), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	151.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Pask PAS domain containing serine/threonine kinase [Mus musculus (house mouse)]
Official Symbol	Pask
Synonyms	Pask; PAS domain containing serine/threonine kinase; P; mKIAA0135; PAS domain-containing serine/threonine-protein kinase; PAS-kinase; paskin; EC 2.7.11.1
Gene ID	269224
mRNA Refseq	NM_080850
Protein Refseq	NP_543126
UniProt ID	Q8CEE6

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