

Recombinant Mouse Sh3glb1 Protein, Myc/DDK-tagged

Cat. No. Sh3glb1-5847M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length SH3-domain GRB2-like B1 (endophilin) (Sh3glb1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description May be required for normal outer mitochondrial membrane dynamics. Required for coatamer-mediated retrograde transport in certain cells. May recruit other proteins to membranes with high curvature. May promote membrane fusion. Involved in activation of caspase-dependent apoptosis by promoting BAX/BAK1 activation. Isoform 1 acts proapoptotic in fibroblasts. Involved in caspase-independent apoptosis during nutrition starvation and involved in the regulation of autophagy. Activates lipid kinase activity of PI3KC3 during autophagy probably by associating with the PI3K complex II (PI3KC3-C2). Associated with PI3KC3-C2 during autophagy may regulate the trafficking of ATG9A from the Golgi complex to the peripheral cytoplasm for the formation of autophagosomes by inducing Golgi membrane tubulation and fragmentation. Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3KC3-C2. Isoform 2 acts antiapoptotic in neuronal cells; involved in maintenance of mitochondrial morphology and promotes neuronal viability.

Molecular Mass 40.9 kDa

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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.
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	Sh3glb1 SH3-domain GRB2-like B1 (endophilin) [<i>Mus musculus</i> (house mouse)]
Official Symbol	Sh3glb1
Synonyms	SH3GLB1; SH3-domain GRB2-like B1 (endophilin); endophilin-B1; endophilin B1; SH3 domain-containing GRB2-like protein B1; Bif-1; AA409932; AI314629; AU015566; mKIAA0491; KIAA0491
Gene ID	54673
mRNA Refseq	NM_019464
Protein Refseq	NP_062337
UniProt ID	Q9JK48

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