

Recombinant Mouse C2cd2l Protein, Myc/DDK-tagged

Cat. No. C2cd2l-1916M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length C2 calcium-dependent domain containing 2-like (C2cd2l), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Lipid-binding protein that transports phosphatidylinositol, the precursor of phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2), from its site of synthesis in the endoplasmic reticulum to the cell membrane. It thereby maintains the pool of cell membrane phosphoinositides, which are degraded during phospholipase C (PLC) signaling. Plays a key role in the coordination of Ca ²⁺ and phosphoinositide signaling: localizes to sites of contact between the endoplasmic reticulum and the cell membrane, where it tethers the two bilayers. In response to elevation of cytosolic Ca ²⁺ , it is phosphorylated at its C-terminus and dissociates from the cell membrane, abolishing phosphatidylinositol transport to the cell membrane. Positively regulates insulin secretion in response to glucose. Phosphatidylinositol transfer to the cell membrane allows replenishment of PI(4,5)P2 pools and calcium channel opening, priming a new population of insulin granules.
Molecular Mass	76.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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	C2cd2l C2 calcium-dependent domain containing 2-like [Mus musculus (house mouse)]
Official Symbol	C2cd2l
Synonyms	C2CD2L; C2 calcium-dependent domain containing 2-like; C2 domain-containing protein 2-like; transmembrane protein 24; Tmem24; 1300006O23Rik
Gene ID	71764
mRNA Refseq	NM_027909
Protein Refseq	NP_082185
UniProt ID	Q80X80

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