

Recombinant Human ARHGEF9 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ARHGEF9-3761H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ARHGEF9 MS Standard C13 and N15-labeled recombinant protein (NP_056000) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a Rho-like GTPase that switches between the active (GTP-bound) state and inactive (GDP-bound) state to regulate CDC42 and other genes. This brain-specific protein also acts as an adaptor protein for the recruitment of gephyrin and together these proteins facilitate receptor recruitment in GABAergic and glycinergic synapses. Defects in this gene are the cause of startle disease with epilepsy (STHEE), also known as hyperekplexia with epilepsy, as well as several other types of cognitive disability. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	60.8 kDa
AA Sequence	MTLLITGDSIVSAEAVWDHVTMANRELAFKAGDVIKVLDA SNKDWWWGQIDDEEGW FPASFVRLWVNQEDEV EEGPSDVQNGHLDPNSDCLCLGRPLQNRDQMRANVINEI MSTERHYIKHLKDICEGYLKQCRKRRDMFSDEQLKVIFGNIEDIYRFQMGFVRDLEK QYNND DPHLSEIGPCFLEHQDGFWIYSEYCNNHLDACMELSKLMKDSRYQHFFFEAC RLLQQMIDIAIDGFLTLVQKICKYPLQLAELLKYTAQDHS DYRYVAAALAVMRNVTQ

 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

QINERKRRLENIDKIAQWQASVLDWEGEDILDRSSELIYTGEMAWIYQPYGRNQQRV
 FFLFDHQMVLCKKDLIRRDILYYKGRIDMDKYEVDIEDGRDDDFNVSMKNAFKLHN
 KETEEIHLFFAKKLEEKIRWLRAFREERKMVQEDEKIGFEISENQKRQAAMTVRKVPK
 QKGVNSARSVPPSYPPPQDPLNHGQYLVPDGIAQSQVFEFTEPKRSQSPFWQNFS
 RLTPFKKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ARHGEF9 Cdc42 guanine nucleotide exchange factor 9 \[Homo sapiens \(human\) \]](#)

Official Symbol [ARHGEF9](#)

Synonyms ARHGEF9; Cdc42 guanine nucleotide exchange factor (GEF) 9; rho guanine nucleotide exchange factor 9; collybistin; KIAA0424; PEM 2; PEM-2 homolog; hPEM-2 collybistin; rac/Cdc42 guanine nucleotide exchange factor 9; PEM2; EIEE8; PEM-2; HPEM-2; COLLYBISTIN;

Gene ID [23229](#)

mRNA Refseq [NM_015185](#)

 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

Protein Refseq	NP_056000
MIM	300429
UniProt ID	O43307

 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