

Recombinant Mouse Homer2 Protein, Myc/DDK-tagged

Cat. No. Homer2-3426M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length homer scaffolding protein 2 (Homer2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Postsynaptic density scaffolding protein. Binds and cross-links cytoplasmic regions of GRM1, GRM5, ITPR1, DNM3, RYR1, RYR2, SHANK1 and SHANK3. By physically linking GRM1 and GRM5 with ER-associated ITPR1 receptors, it aids the coupling of surface receptors to intracellular calcium release. May also couple GRM1 to PI3 kinase through its interaction with AGAP2. Isoforms can be differently regulated and may play an important role in maintaining the plasticity at glutamatergic synapses. Required for normal hearing. Negatively regulates T cell activation by inhibiting the calcineurin-NFAT pathway. Acts by competing with calcineurin/PPP3CA for NFAT protein binding, hence preventing NFAT activation by PPP3CA.
Molecular Mass	41 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.
Storage	Store at -80 centigrade after receiving vials.

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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 [Homer2 homer scaffolding protein 2 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Homer2](#)

Synonyms HOMER2; homer homolog 2 (Drosophila); homer protein homolog 2; cupidin; homer-2; homer, neuronal immediate early gene, 2; VASP/Ena-related gene up-regulated during seizure and LTP 2; CPD; Vesl-2; AW539445; 9330120H11Rik

Gene ID [26557](#)

mRNA Refseq [NM_011983](#)

Protein Refseq [NP_036113](#)

UniProt ID [Q9QWW1](#)

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