

Recombinant Human HOMER3, His-tagged

Cat. No. HOMER3-13881H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HOMER3 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-361a.a.
Description	This gene encodes a member of the HOMER family of postsynaptic density scaffolding proteins that share a similar domain structure consisting of an N-terminal Enabled/vasodilator-stimulated phosphoprotein homology 1 domain which mediates protein-protein interactions, and a carboxy-terminal coiled-coil domain and two leucine zipper motifs that are involved in self-oligomerization. The encoded protein binds numerous other proteins including group I metabotropic glutamate receptors, inositol 1,4,5-trisphosphate receptors and amyloid precursor proteins and has been implicated in diverse biological functions such as neuronal signaling, T-cell activation and trafficking of amyloid beta peptides. Alternative splicing results in multiple transcript variants.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

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GENE INFORMATION

Gene Name	HOMER3 homer homolog 3 (Drosophila) [Homo sapiens]
Official Symbol	HOMER3
Synonyms	HOMER3; homer homolog 3 (Drosophila); homer protein homolog 3; HOMER 3; Homer, neuronal immediate early gene, 3; VESL3; HOMER-3;
Gene ID	9454
mRNA Refseq	NM_001145721
Protein Refseq	NP_001139193
MIM	604800
UniProt ID	Q9NSC5
Chromosome Location	19p13.1
Pathway	Glutamatergic synapse, organism-specific biosystem; Glutamatergic synapse, conserved biosystem; T Cell Receptor Signaling Pathway, organism-specific biosystem;
Function	protein C-terminus binding; protein binding; protein domain specific binding;

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