

## 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** 1-361 a.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<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

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## GENE INFORMATION

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

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