

Recombinant Human Homer protein homolog 1

Catalog Number: CSB-RP030074h



Product Name:	Recombinant Human Homer protein homolog 1
Alternative names:	Homer-1
Catalog Number:	CSB-RP030074h
Relevance :	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. Isoform 1 regulates the trafficking and surface expression of GRM5. Isoform 3 acts as a natural dominant negative, in dynamic competition with constitutively expressed isoform 1 to regulate synaptic metabotropic glutamate function. Isoform 3, may be involved in the structural changes that occur at synapses during long-lasting neuronal plasticity and development.
Mol. Weight:	44kd
Product Info :	His-tagged
Source:	E.coli derived
Image:	
Purity:	>90%(SDS-PAGE)
Storage Buffer:	50mM HEPES, 150mM NaCl, pH 7.4, 25% glycerol
Storage :	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes :	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
AA sequence:	MGEQPIFSTRAHVFQIDPNTKKNWVPTSKHAVTVSYFYDSTRNVYRIISLDGSKAIINSTIT PNMTFTKTSQKFGQWADSRANTVYGLGFSSEHLSKFAEKQEFKEAARLAKEKSQEK MELTSTPSQESAGGDLQSPLTPESINGTDDERTPDVTQNSEPRAEPTQNALPFSHSSAI SKHWEAELATLKGNNAKLTAALLESTANVKQWKQQLAAYQEEAERLHKRVTELECVSS QANAVHTHKTELNQTIQELEETLKLKEEEIERLKQEIDNARELQEQRDSLTKLQVEVEIRN KDLEGQLSDLEQRLEKSQNEQEAFRNNLKTLLEILDGKIFELTELDRDNLAKLLECS
References:	"Homer regulates the association of group 1 metabotropic glutamate receptors with multivalent complexes of homer-related, synaptic proteins." Xiao B., Tu J.C., Petralia R.S., Yuan J.P., Doan A., Breder C.D., Ruggiero A., Lanahan A.A., Wenthold R.J., Worley P.F. Neuron 21:707-716(1998)