GRIP1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	GRIP1, Blocking Peptide
Full Product Name	GRIP1 Blocking Peptide
Product Gene Name	GRIP1 blocking peptide
Product Synonym Names	as GRIP; Glutamate receptor-interacting protein 1; GRIP-1; Grip1; GRIP1_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	GRIP1 peptide (MBS9622731) is used for blocking the activity of GRIP1 antibody (MBS9604014)
Molecular Weight	116,371 Da
OMIM	phenotype 604597
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for GRIP1 blocking peptide	Blocking/Control
Related Product Information for GRIP1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of GRIP1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GRIP1 purchase	MBS9622731 is a blocking peptide targeting GRIP1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRIP1. It may not necessarily be applicable to this product.

NCBI GI #	296010842
NCBI GeneID	23426
NCBI Accession #	NP_001171545.1
UniProt Primary Accession #	Q9Y3R0
UniProt Secondary Accession #	Q1RLM0; C9JT59
UniProt Related Accession #	Q9Y3R0

GenBank Nucleotide #	NM_001178074.1
NCBI Official Full Name	glutamate receptor-interacting protein 1 isoform 2
NCBI Official Synonym Full Names	glutamate receptor interacting protein 1
NCBI Official Symbol	GRIP1
NCBI Official Synonym Symbols	GRIP
UniProt Protein Name	Glutamate receptor-interacting protein 1
Protein Family	Glutamate receptor-interacting protein
UniProt Gene Name	GRIP1
UniProt Synonym Gene Names	GRIP-1
UniProt Entry Name	GRIP1_HUMAN
NCBI Protein Information	glutamate receptor-interacting protein 1
NCBI Summary for GRIP1	This gene encodes a member of the glutamate receptor interacting protein family. The encoded scaffold protein binds to and mediates the trafficking and membrane organization of a number of transmembrane proteins. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, May 2010]
UniProt Comments for GRIP1	GRIP1: a scaffold protein for the assembly of a multiprotein signaling complex and as mediator of the trafficking of its binding partners at specific locations in neurons. Interacts with EphA7, EphB2, KIF5A, -B, -C, GluR2, -3, GRIPAP1, liprin A1, PPFIA4, FRAS1, and PTPRF. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 12q14.3 Cellular Component: postsynaptic membrane; recycling endosome; neuron projection; endoplasmic reticulum; dendrite; cytoplasmic membrane-bound vesicle; plasma membrane; cytosol; cell junction; lipid raft Molecular Function: protein C-terminus binding; protein binding; receptor signaling complex scaffold activity; androgen receptor binding; transcription coactivator activity; beta-catenin binding; glucocorticoid receptor binding Biological Process: synaptic transmission; protein localization; positive regulation of transcription, DNA-dependent; androgen receptor signaling pathway; dendrite development Disease: Fraser Syndrome
Research Articles on GRIP1	**1.** the Trip6-GRIP1-myosin VI interaction and its regulation on F-actin network play a significant role in dendritic morphogenesis
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