FGF12 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	FGF12, Blocking Peptide
Full Product Name	FGF12 Blocking Peptide
Product Gene Name	FGF12 blocking peptide
Product Synonym Names	EIEE47; FGF-12; Fgf12; FGF12_HUMAN; FGF12B; FHF-1; FHF1; Fibroblast growth factor 12; Fibroblast growth factor 12B; Fibroblast growth factor FGF 12b; Fibroblast growth factor homologous factor 1; Myocyte activating factor; Myocyte-activating factor
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	FGF12 peptide (MBS9622724) is used for blocking the activity of FGF12 antibody (MBS9604007)
Molecular Weight	20,424 Da
OMIM	601513
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 FGF12 blocking peptide	Blocking/Control
Related Product Information for FGF12 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 FGF12 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 FGF12 purchase	MBS9622724 is a blocking peptide targeting FGF12.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGF12. It may not necessarily be applicable to this product.

NCBI GI #	21614511
NCBI GeneID	2257
NCBI Accession #	NP_004104.3
UniProt Primary Accession #	P61328
UniProt Secondary Accession #	O35339; P70376; Q8TBG5; Q92912; Q93001; B2R6B7; B2R976

UniProt Related Accession #	P61328
GenBank Nucleotide #	NM_004113.5
NCBI Official Full Name	fibroblast growth factor 12 isoform 2
NCBI Official Synonym Full Names	fibroblast growth factor 12
NCBI Official Symbol	FGF12
NCBI Official Synonym Symbols	FHF1; FGF12B
UniProt Protein Name	Fibroblast growth factor 12
UniProt Synonym Protein Names	Fibroblast growth factor homologous factor 1; FHF-1; Myocyte-activating factor
Protein Family	Fibroblast growth factor
UniProt Gene Name	FGF12
UniProt Synonym Gene Names	FGF12B; FHF1; FGF-12; FHF-1
UniProt Entry Name	FGF12_HUMAN
NCBI Protein Information	fibroblast growth factor 12; FGF-12; FHF-1; fibroblast growth factor 12B; fibroblast growth factor FGF-12b; fibroblast growth factor homologous factor 1; myocyte-activating factor
NCBI Summary for FGF12	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. This growth factor lacks the N-terminal signal sequence present in most of the FGF family members, but it contains clusters of basic residues that have been demonstrated to act as a nuclear localization signal. When transfected into mammalian cells, this protein accumulated in the nucleus, but was not secreted. The specific function of this gene has not yet been determined. Two alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for FGF12	FGF12: Probably involved in nervous system development and function. Belongs to the heparin-binding growth factors family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell development/differentiation; Cytokine Chromosomal Location of Human Ortholog: 3q28 Cellular Component: extracellular space; nucleus Molecular Function: heparin binding; growth factor activity; sodium channel regulator activity; fibroblast growth factor receptor binding Biological Process: nervous system development; synaptic transmission; fibroblast growth factor receptor signaling pathway; cell-cell signaling; adult locomotory behavior; heart development; neuromuscular process; JNK cascade; signal transduction
Research Articles on FGF12	**1.** Q7R-FGF12 is a disease-associated BrS mutation. Moreover, these data suggest for the first time that FHF effects on Na(+) and Ca(2+) channels are separable.
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