Piezo1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Piezo1, Blocking Peptide
Full Product Name	Piezo1 Blocking Peptide
Product Gene Name	Piezo1 blocking peptide
Product Synonym Names	DHS; Fam38a; Family with sequence similarity 38 member A; KIAA0233; Membrane protein induced by beta-amyloid treatment; Mib; PIEZ1_HUMAN; Piezo-type mechanosensitive ion channel component 1; PIEZO1; Protein FAM38A; Protein FAM38B; Protein PIEZO1
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	Piezo1 peptide (MBS9620788) is used for blocking the activity of Piezo1 antibody (MBS9603311)
Molecular Weight	286,790 Da
OMIM	JN790819 mRNA
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 Piezo1 blocking peptide	Blocking/Control
Related Product Information for Piezo1 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 Piezo1 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 Piezo1 purchase	MBS9620788 is a blocking peptide targeting Piezo1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Piezo1. It may not necessarily be applicable to this product.

NCBI GI #	257196142
NCBI GeneID	9780
NCBI Accession #	NP_001136336.2
UniProt Primary Accession #	Q92508
UniProt Secondary Accession #	Q0KKZ9; A6NHT9; A7E2B7

UniProt Related Accession #	Q92508
GenBank Nucleotide #	NM_001142864.4
NCBI Official Full Name	piezo-type mechanosensitive ion channel component 1
NCBI Official Synonym Full Names	piezo type mechanosensitive ion channel component 1
NCBI Official Symbol	PIEZO1
NCBI Official Synonym Symbols	DHS; Mib; FAM38A
UniProt Protein Name	Piezo-type mechanosensitive ion channel component 2
UniProt Synonym Protein Names	Protein FAM38B
Protein Family	Piezo-type mechanosensitive ion channel component
UniProt Gene Name	PIEZO2
UniProt Synonym Gene Names	C18orf30; C18orf58; FAM38B
NCBI Protein Information	piezo-type mechanosensitive ion channel component 1
NCBI Summary for Piezo1	The protein encoded by this gene is a mechanically-activated ion channel that links mechanical forces to biological signals. The encoded protein contains 36 transmembrane domains and functions as a homotetramer. Defects in this gene have been associated with dehydrated hereditary stomatocytosis. [provided by RefSeq, Jul 2015]
UniProt Comments for Piezo1	FAM38B: Component of mechanosensitive channel required for rapidly adaptating mechanically activated (MA) currents in DRG neurons. Belongs to the PIEZO family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 18p11.22-p11.21 Cellular Component: plasma membrane Molecular Function: cation channel activity; mechanically-gated ion channel activity Biological Process: cation transport; detection of mechanical stimulus; detection of mechanical stimulus involved in sensory perception; regulation of membrane potential; response to mechanical stimulus
Research Articles on Piezo1	**1.** PIEZO1 is permeable to monovalent ions (K+, Na+, Cs+, Li+) and most divalent ions (Ba2+, Ca2+ and Mg2+), but not to Mn2+.
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