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

PRODUCT OVERVIEW

Product Name	BVES, Blocking Peptide
Full Product Name	BVES Blocking Peptide
Product Gene Name	BVES blocking peptide
Product Synonym Names	Blood vessel epicardial substance; Bves; hBVES; MGC42413; POP 1; POP1; POPD1_HUMAN; POPDC 1; POPDC1; Popeye domain containing 1; Popeye domain containing protein 1; Popeye domain-containing protein 1; Popeye protein 1
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	BVES peptide (MBS9625404) is used for blocking the activity of BVES antibody (MBS9606687)
Molecular Weight	41,451 Da
OMIM	604577
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 BVES blocking peptide	Blocking/Control
Related Product Information for BVES 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 BVES 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 BVES purchase	MBS9625404 is a blocking peptide targeting BVES.

ADDITIONAL DETAILS

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

NCBI GI #	313760596
NCBI GeneID	11149
NCBI Accession #	NP_001186492.1
UniProt Primary Accession #	Q8NE79
UniProt Secondary Accession #	Q5T550; Q5T551; Q8IWC6; Q9HBV0; Q9UNG6; A8K1R4; E1P5D8

UniProt Related Accession #	Q8NE79
GenBank Nucleotide #	NM_001199563.1
NCBI Official Full Name	blood vessel epicardial substance
NCBI Official Synonym Full Names	blood vessel epicardial substance
NCBI Official Symbol	BVES
NCBI Official Synonym Symbols	POP1; HBVES; POPDC1
UniProt Protein Name	Blood vessel epicardial substance
UniProt Synonym Protein Names	Popeye domain-containing protein 1; Popeye protein 1
Protein Family	Blood vessel epicardial substance
UniProt Gene Name	BVES
UniProt Synonym Gene Names	POP1; POPDC1; hBVES; Popeye protein 1
UniProt Entry Name	POPD1_HUMAN
NCBI Protein Information	blood vessel epicardial substance; popeye protein 1; popeye domain containing 1; popeye domain-containing protein 1
NCBI Summary for BVES	This gene encodes a member of the POP family of proteins containing three putative transmembrane domains. This gene is expressed in cardiac and skeletal muscle and may play an important role in development of these tissues. The mouse ortholog may be involved in the regeneration of adult skeletal muscle and may act as a cell adhesion molecule in coronary vasculogenesis. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Dec 2010]
UniProt Comments for BVES	BVES: Cell adhesion molecule involved in the establishment and/or maintenance of cell integrity. Involved in the formation and regulation of the tight junction (TJ) paracellular permeability barrier in epithelial cells. Plays a role in VAMP3- mediated vesicular transport and recycling of different receptor molecules through its interaction with VAMP3. Plays a role in the regulation of cell shape and movement by modulating the Rho-family GTPase activity through its interaction with ARHGEF25/GEFT. Induces primordial adhesive contact and aggregation of epithelial cells in a Ca(2+)-independent manner. Also involved in striated muscle regeneration and repair and in the regulation of cell spreading. Belongs to the popeye family. Protein type: Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 6q21 Cellular Component: tight junction; plasma membrane; integral to membrane; lateral plasma membrane Molecular Function: cAMP binding; structural molecule activity Biological Process: vesicle-mediated transport; regulation of cell shape; regulation of membrane potential; muscle development; positive regulation of locomotion; regulation of heart rate; hemopoietic progenitor cell differentiation; positive regulation of receptor recycling
Research Articles on BVES	**1.** These results suggest that down-regulation of BVES in hepatocellular carcinoma induces epithelial-mesenchymal transition, thus promoting invasion and metastasis in HCC cells.
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