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

PRODUCT OVERVIEW

Product Name	CPZ, Blocking Peptide
Full Product Name	CPZ Blocking Peptide
Product Gene Name	CPZ blocking peptide
Product Synonym Names	CBPZ; CPZ; EC=3.4.17.-; MGC99682
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	CPZ peptide (MBS9628362) is used for blocking the activity of CPZ antibody (MBS9609658)
Molecular Weight	58,591 Da
OMIM	U83411 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 CPZ blocking peptide	Blocking/Control
Related Product Information for CPZ 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 CPZ 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 CPZ purchase	MBS9628362 is a blocking peptide targeting CPZ.

ADDITIONAL DETAILS

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

NCBI GI #	62388877
NCBI GeneID	8532
NCBI Accession #	NP_001014447.1
UniProt Primary Accession #	Q66K79
UniProt Secondary Accession #	O00520; Q96MX2
UniProt Related Accession #	Q66K79

GenBank Nucleotide #	NM_001014447.2
NCBI Official Full Name	carboxypeptidase Z isoform 1
NCBI Official Synonym Full Names	carboxypeptidase Z
NCBI Official Symbol	CPZ
UniProt Protein Name	Carboxypeptidase Z
Protein Family	Carboxypeptidase
UniProt Gene Name	CPZ
UniProt Synonym Gene Names	CPZ
NCBI Protein Information	carboxypeptidase Z
NCBI Summary for CPZ	This gene encodes a member of the metallocarboxypeptidase family. This enzyme displays carboxypeptidase activity towards substrates with basic C-terminal residues. It is most active at neutral pH and is inhibited by active site-directed inhibitors of metallocarboxypeptidases. Alternative splicing in the coding region results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for CPZ	Cleaves substrates with C-terminal arginine residues. Probably modulates the Wnt signaling pathway, by cleaving some undefined protein. May play a role in cleavage during prohormone processing.
Research Articles on CPZ	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Online datasheet: https://www.mybiosource.com/blocking-peptide/cpz/9628362