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

PRODUCT OVERVIEW

Product Name	EED, Blocking Peptide
Full Product Name	EED Blocking Peptide
Product Gene Name	EED blocking peptide
Product Synonym Names	eed; EED protein; EED, mouse, homolog of; EED_HUMAN; Embryonic ectoderm development; Embryonic ectoderm development isoform a; Embryonic ECTODERM development protein homolog; Embryonic ectoderm development protein, mouse, homolog of; hEED; OTTHUMP00000235483; OTTHUMP00000235484; OTTHUMP00000235485; Polycomb protein eed; WAIT 1; WAIT-1; WAIT1; WD protein associating with integrin cytoplasmic tails 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	EED peptide (MBS9618567) is used for blocking the activity of EED antibody (MBS9610846)
Molecular Weight	45,524 Da
OMIM	605984
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 EED blocking peptide	Blocking/Control
Related Product Information for EED 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 EED 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 EED purchase	MBS9618567 is a blocking peptide targeting EED.

ADDITIONAL DETAILS

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

NCBI GI #	24041020
NCBI GeneID	8726
NCBI Accession #	NP_003788.2
UniProt Primary Accession #	O75530

UniProt Secondary Accession #	O00149; Q6NTH2; Q7LDA5; Q7LDG8; Q86VV2; Q9UNY7; A8K7V5
UniProt Related Accession #	O75530
GenBank Nucleotide #	NP_003788.2
NCBI Official Full Name	polycomb protein EED isoform a
NCBI Official Synonym Full Names	embryonic ectoderm development
NCBI Official Symbol	EED
NCBI Official Synonym Symbols	HEED; WAIT1
UniProt Protein Name	Polycomb protein EED
UniProt Synonym Protein Names	WD protein associating with integrin cytoplasmic tails 1; WAIT-1
Protein Family	Polycomb protein
UniProt Gene Name	EED
UniProt Synonym Gene Names	hEED; WAIT-1
UniProt Entry Name	EED_HUMAN
NCBI Protein Information	polycomb protein EED; WD protein associating with integrin cytoplasmic tails 1
NCBI Summary for EED	This gene encodes a member of the Polycomb-group (PcG) family. PcG family members form multimeric protein complexes, which are involved in maintaining the transcriptional repressive state of genes over successive cell generations. This protein interacts with enhancer of zeste 2, the cytoplasmic tail of integrin beta7, immunodeficiency virus type 1 (HIV-1) MA protein, and histone deacetylase proteins. This protein mediates repression of gene activity through histone deacetylation, and may act as a specific regulator of integrin function. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for EED	EED: a member of the superfamily of Polycomb group (PcG) methyltransferase proteins with WD-40 repeats. PcG complexes mediate chromatin modifications that contribute to transcriptional silencing during development and carcinogenesis. A part of the Polycomb-repressive complex 2 (PRC2) along with EZH2, SUZ12, RBBP4 and RBBP7 and possibly AEBP2. Interacts with HDAC, HDAC2, histone H1 and YY1. PRC2 trimethylates histone H3 on K9 and K27, transcriptionally repressing target gene including HOXC8, HOXA9, MYT1 and CDKN2A. Appears to be overexpressed in breast and colon cancers. Inhibitors of PRC2-mediated gene repression are being investigated as a cancer therapy. EED and EZH2 are also implicated in the silencing of the inactive X chromosome. Three human isoforms produced by alternative splicing or initiation have been described, and additional isoforms may be produced by alternative initiation. Protein type: Methyltransferase Chromosomal Location of Human Ortholog: 11q14.2-q22.3 Cellular Component: nucleoplasm; sex chromatin; pronucleus; ESC/E(Z) complex; cytoplasm; nucleolus; nucleus Molecular Function: histone methyltransferase activity; identical protein binding; protein binding; chromatin binding Biological Process: histone methylation; genetic imprinting; transcription, DNA-dependent; negative regulation of gene expression, epigenetic; gene expression; negative regulation of transcription, DNA-dependent; regulation of gene expression, epigenetic
Research Articles on EED	**1.** EED, a component of Polycomb repressive complex-2 (PRC2) that catalyzes methylation of lysine 27 of histone H3 (H3K27), was involved in epithelial-mesenchymal transition (EMT) of cancer cells induced by Transforming Growth Factor-beta (TGF-beta).
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