HES7 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	HES7, Blocking Peptide
Full Product Name	HES7 Antibody (N-term) Blocking Peptide
Product Gene Name	HES7 blocking peptide
Product Synonym Gene Name	BHLHB37
Product Synonym Names	Transcription factor HES-7; hHes7; Class B basic helix-loop-helix protein 37; bHLHb37; Hairy and enhancer of split 7; bHLH factor Hes7; HES7; BHLHB37
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 1 mg/ml.
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	HES7 peptide (MBS9228357) is used for blocking the activity of HES7 antibody (MBS9205829)
Molecular Weight	25,280 Da
OMIM	608059
Cellular Location	Nucleus.
Related Product Information for HES7 blocking peptide	Transcriptional repressor. Represses transcription from both N box- and E box-containing promoters. May with HES1, cooperatively regulate somite formation in the presomitic mesoderm (PSM). May function as a segmentation clock, which is essential for coordinated somite segmentation (By similarity).
Other Notes	Small volumes of HES7 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 HES7 purchase	MBS9228357 is a blocking peptide targeting HES7. Also known as HES7 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HES7. It may not necessarily be applicable to this product.

NCBI GI #	296434525
NCBI GeneID	84667
NCBI Accession #	Q9BYE0.2
UniProt Primary Accession #	Q9BYE0
UniProt Secondary Accession #	F8VPC9
UniProt Related Accession #	Q9BYE0
NCBI Official Full Name	Transcription factor HES-7
NCBI Official Synonym Full Names	hes family bHLH transcription factor 7
NCBI Official Symbol	HES7
NCBI Official Synonym Symbols	SCDO4; bHLHb37
UniProt Protein Name	Transcription factor HES-7

UniProt Synonym Protein Names	Class B basic helix-loop-helix protein 37; bHLHb37; Hairy and enhancer of split 7; bHLH factor Hes7
Protein Family	Transcription factor
UniProt Gene Name	HES7
UniProt Synonym Gene Names	BHLHB37; hHes7; bHLHb37
UniProt Entry Name	HES7_HUMAN
NCBI Protein Information	transcription factor HES-7
NCBI Summary for HES7	This gene encodes a member of the hairy and enhancer of split family of bHLH transcription factors. The mouse ortholog of this gene is regulated by Notch signaling. The protein functions as a transcriptional repressor, and is implicated in correct patterning of the axial skeleton. A mutation in this gene has been shown to result in spondylocostal dysostosis. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]
UniProt Comments for HES7	HES7: Transcriptional repressor. Represses transcription from both N box- and E box-containing promoters. May with HES1, cooperatively regulate somite formation in the presomitic mesoderm (PSM). May function as a segmentation clock, which is essential for coordinated somite segmentation. Defects in HES7 are the cause of spondylocostal dysostosis type 4 (SCDO4). A rare condition of variable severity characterized by vertebral and costal anomalies. The main feature include dwarfism, vertebral fusion, hemivertebrae, posterior rib fusion, reduced rib number, and other rib malformations. Chromosomal Location of Human Ortholog: 17p13.1 Disease: Spondylocostal Dysostosis 4, Autosomal Recessive
Research Articles on HES7	**1.** an Indian family links Coats plus syndrome and dextrocardia with a homozygous novel CTC1 and a rare HES7 variation
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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