HES7 Blocking Peptide

PRODUCT OVERVIEW

Product Name	HES7, Blocking Peptide
Full Product Name	HES7 Peptide
Product Gene Name	HES7 blocking peptide
Product Synonym Gene Name	SCDO4; bHLHb37
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	HES7 peptide (MBS3224825) is used for blocking the activity of HES7 antibody (MBS3200137)
Molecular Weight	25kDa
OMIM	608059
Product Categories/Family for HES7 blocking peptide	Peptide
Applications Tested/Suitable for HES7 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for HES7 blocking peptide	This is a synthetic peptide designed for use in combination with anti-HES7 antibody made Target Description: In mouse, Hes7 expression is associated with somitogenesis and is controlled by Notch signaling.
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	MBS3224825 is a blocking peptide targeting HES7. Also known as HES7 Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	145207994
NCBI GeneID	84667
NCBI Accession #	NP_115969
UniProt Primary Accession #	Q9BYE0
UniProt Related Accession #	Q9BYE0
GenBank Nucleotide #	NM_032580
NCBI Official Full Name	transcription factor HES-7 isoform 2
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 Cellular Component: nucleus Molecular Function: protein dimerization activity; DNA binding; transcription factor binding Biological Process: somitogenesis; Notch signaling pathway; transcription, DNA-dependent; rhythmic process; mesoderm development; negative regulation of transcription from RNA polymerase II promoter; regulation of somitogenesis; skeletal development 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
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