

**HEXB Blocking Peptide (Center)**  
Synthetic peptide  
Catalog # BP21947c**Specification**

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**HEXB Blocking Peptide (Center) - Product Information**Primary Accession [P07686](#)**HEXB Blocking Peptide (Center) - Additional Information**

Gene ID 3074

**Other Names**

Beta-hexosaminidase subunit beta, 3.2.1.52, Beta-N-acetylhexosaminidase subunit beta, Hexosaminidase subunit B, Cervical cancer proto-oncogene 7 protein, HCC-7, N-acetyl-beta-glucosaminidase subunit beta, Beta-hexosaminidase subunit beta chain B, Beta-hexosaminidase subunit beta chain A, HEXB

**Target/Specificity**

The synthetic peptide sequence is selected from aa 190-203 of HUMAN HEXB

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**HEXB Blocking Peptide (Center) - Protein Information**Name HEXB ([HGNC:4879](#))**Function**

Hydrolyzes the non-reducing end N-acetyl-D-hexosamine and/or sulfated N-acetyl-D-hexosamine of glycoconjugates, such as the oligosaccharide moieties from proteins and neutral glycolipids, or from certain mucopolysaccharides (PubMed: [11707436](http://www.uniprot.org/citations/11707436)), PubMed: [8123671](http://www.uniprot.org/citations/8123671)), PubMed: [8672428](http://www.uniprot.org/citations/8672428)), PubMed: [9694901](http://www.uniprot.org/citations/9694901)). The isozyme B does not hydrolyze each of these substrates, however hydrolyzes efficiently neutral oligosaccharide (PubMed: [11707436](http://www.uniprot.org/citations/11707436)). Only the isozyme A is responsible for the degradation of GM2 gangliosides in the presence of GM2A (PubMed: [8123671](http://www.uniprot.org/citations/8123671)), PubMed: [8672428](http://www.uniprot.org/citations/8672428)),

PubMed: <a href="http://www.uniprot.org/citations/9694901" target="\_blank">9694901</a>). During fertilization is responsible, at least in part, for the zona block to polyspermy. Present in the cortical granules of non-activated oocytes, is exocytosed during the cortical reaction in response to oocyte activation and inactivates the sperm galactosyltransferase-binding site, accounting for the block in sperm binding to the zona pellucida (By similarity).

**Cellular Location**

Lysosome. Cytoplasmic vesicle, secretory vesicle, Cortical granule  
{ECO:0000250|UniProtKB:P20060}

**HEXB Blocking Peptide (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**HEXB Blocking Peptide (Center) - Images****HEXB Blocking Peptide (Center) - Background**

Responsible for the degradation of GM2 gangliosides, and a variety of other molecules containing terminal N-acetyl hexosamines, in the brain and other tissues.

**HEXB Blocking Peptide (Center) - References**

Korneluk R.G., et al. J. Biol. Chem. 261:8407-8413(1986).  
Neote K., et al. Genomics 3:279-286(1988).  
Proia R.L., et al. Proc. Natl. Acad. Sci. U.S.A. 85:1883-1887(1988).  
Kim J.W., et al. Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases.  
Kalnina N., et al. Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.