

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

HEXB Blocking Peptide (Center) - Product InformationPrimary 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 InformationName 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, PubMed:8123671, PubMed:8672428, PubMed:9694901). The isozyme B does not hydrolyze each of these substrates, however hydrolyzes efficiently neutral oligosaccharide (PubMed:11707436). Only the isozyme A is responsible for the degradation of GM2 gangliosides in the presence of GM2A (PubMed:8123671, PubMed:8672428, PubMed:9694901).

PubMed:9694901). 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.