

HS3ST1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP9512a**Specification**

HS3ST1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O14792](#)**HS3ST1 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 9957

Other Names

Heparan sulfate glucosamine 3-O-sulfotransferase 1, Heparan sulfate D-glucosaminyl 3-O-sulfotransferase 1, 3-OST-1, Heparan sulfate 3-O-sulfotransferase 1, h3-OST-1, HS3ST1, 3OST, 3OST1

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.

HS3ST1 Antibody (N-term) Blocking Peptide - Protein Information

Name HS3ST1

Synonyms 3OST, 3OST1

Function

Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the transfer of a sulfo group to position 3 of glucosamine residues in heparan (PubMed:9346953, PubMed:8900198, PubMed:9988768). Catalyzes the rate limiting step in the biosynthesis of heparan sulfate (HSact) (PubMed:8900198, PubMed:9988768). This modification is a crucial step in the biosynthesis of anticoagulant heparan sulfate as it completes the structure of the antithrombin pentasaccharide binding site (PubMed:8900198, PubMed:9988768).

Cellular Location

Golgi apparatus lumen.

Tissue Location

Highly expressed in the brain and kidney and weakly expressed in the heart, lung and placenta

HS3ST1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HS3ST1 Antibody (N-term) Blocking Peptide - Images**HS3ST1 Antibody (N-term) Blocking Peptide - Background**

Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. The enzyme is a member of the heparan sulfate biosynthetic enzyme family. It possesses both heparan sulfate glucosaminyl 3-O-sulfotransferase activity, anticoagulant heparan sulfate conversion activity, and is a rate limiting enzyme for synthesis of anticoagulant heparan. This enzyme is an intraluminal Golgi resident protein.

HS3ST1 Antibody (N-term) Blocking Peptide - References

Edavettal, S.C., et al. Biochemistry 43(16):4680-4688(2004) Hernaiz, M., et al. Biochem. Biophys. Res. Commun. 276(1):292-297(2000) Liu, J., et al. J. Biol. Chem. 274(8):5185-5192(1999) Shworak, N.W., et al. J. Biol. Chem. 274(8):5170-5184(1999)