

HS3ST1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP9512a

Specification

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

Primary 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'-adenyl sulfate (PAPS) to
catalyze the transfer of a sulfo group to
position 3 of glucosamine residues in

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)

heparan. Catalyzes the rate limiting step in the biosynthesis of heparan sulfate (HSact). This modification is a crucial step in the biosynthesis of anticoagulant heparan sulfate as it completes the structure of the antithrombin pentasaccharide binding site.

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](#)