

Active Recombinant Human HS3ST3B1, His-tagged

Cat. No. HS3ST3B1-118H Lot. No. (See product label)

SPECIFICATION

Product Overview	Chinese Hamster Ovary cell line, CHO-derived, Ser54-Asp390 with an N-terminal CD33 signal sequence and a C-terminal 6-His tag
Species	Human
Source	CHO
ProteinLength	54-390 a.a.
Description	Human Heparan Sulfate Glucosamine 3-O-sulfotransferase 3 belongs to the family of transferases, specifically the sulfotransferases, which transfer sulfur-containing groups. The systematic name of this enzyme class is 3'-phosphoadenylyl-sulfate:[heparan sulfate]-glucosamine 3-sulfotransferase. Other names in common use include heparin-glucosamine 3-O-sulfotransferase, 3'-phosphoadenylyl-sulfate:heparin-glucosamine 3-O-sulfotransferase, glucosaminyl 3-O-sulfotransferase, heparan sulfate D-glucosaminyl 3-O-sulfotransferase, and isoform/isozyme 1 (3-OST-1, HS3ST1). This enzyme participates in heparan sulfate biosynthesis and glycan structures - biosynthesis 1.
Predicted N Terminal	Gly60
Form	Supplied as a 0.2 µm filtered solution in Tris, NaCl and Brij-35.
Bio-activity	Measured by its ability to transfer sulfate from PAPS to heparan sulfate. The specific activity is >25 pmol/min/µg, as measured under the described conditions.

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Molecular Mass	38 kDa, 39-52 kDa, reducing SDS-PAGE conditions.
Endotoxin	< 1.0 eu per 1 µg of the protein by the lal method
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie? Blue stain at 5 µg per lane.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.6 months from date of receipt, -70 °C as supplied.3 months, -70 °C under sterile conditions after opening.

GENE INFORMATION

Gene Name	HS3ST3B1 heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1 [Homo sapiens]
Official Symbol	HS3ST3B1
Synonyms	HS3ST3B1; heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1; heparan sulfate glucosamine 3-O-sulfotransferase 3B1; 3OST3B1; 30ST3B1; 3-OST-3B; h3-OST-3B; heparan sulfate 3-O-sulfotransferase 3B1; heparan sulfate D-glucosaminyl 3-O-sulfotransferase 3B1;
Gene ID	9953
mRNA Refseq	NM_006041
Protein Refseq	NP_006032
MIM	604058
UniProt ID	Q9Y662

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**Chromosome
Location**

17p12

Pathway

Glycosaminoglycan biosynthesis - heparan sulfate, organism-specific biosystem;
Glycosaminoglycan biosynthesis - heparan sulfate, conserved biosystem; heparan sulfate biosynthesis, organism-specific biosystem; heparan sulfate biosynthesis, conserved biosystem; heparan sulfate biosynthesis (late stages), organism-specific biosystem; heparan sulfate biosynthesis (late stages), conserved biosystem;

Function

[heparan sulfate]-glucosamine 3-sulfotransferase 1 activity; [heparan sulfate]-glucosamine 3-sulfotransferase 3 activity; sulfotransferase activity; transferase activity;

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