

Active Recombinant Mouse Heparan Sulfate 6-O-Sulfotransferase 3, His-tagged

Cat. No. Hs6st3-1972M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Hs6st3 protein was expressed in Chinese Hamster Ovary cell line. Pro28-Trp470, with an N-terminal 6-His tag.
Species	Mouse
Source	CHO
Protein Length	28-470 a.a.
Description	Heparan sulfate is a highly sulfated polysaccharide that can be found on the cell surface and extracellular matrix. It is usually covalently attached to a protein core as the glycan component of a proteoglycan. Heparan sulfate interacts with a variety of proteins, such as growth factors, protease inhibitors, cytokines, lipoprotein lipase and viral envelope proteins, therefore playing roles in cell growth, cell differentiation, cell motility, blood coagulation, lipid metabolism and viral infection. Heparan sulfate consists of repeating residues of uronic acid and N-acetylglucosamine. The uronic acid residues can be sulfated at the 2-O position by heparan sulfate 2-O sulfotransferase.
Form	Supplied as a 0.2 umfiltered solution in Tris, NaCl and EDTA.
N-terminal Sequence	His
Molecular Weight	53 kDa

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Activity	Measured by its ability to transfer sulfate from PAPS to heparan sulfate. The specific activity is > 40 pmoles/min/μg, as measured under the described conditions.
Endotoxin Level	<1.0 EU per 1 μg of the protein by the LAL method.
SDS-PAGE	70-90 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	Hs6st3 heparan sulfate 6-O-sulfotransferase 3 [<i>Mus musculus</i>]
Official Symbol	Hs6st3
Synonyms	Hs6st3; heparan sulfate 6-O-sulfotransferase 3; 6OST3; HS6ST-3; heparan-sulfate 6-O-sulfotransferase 3
Gene ID	50787
mRNA Refseq	NM_015820
Protein Refseq	NM_015820
UniProt ID	Q149R8
Chromosome	14

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Location	
Pathway	Glycosaminoglycanbiosynthesis - heparan sulfate
Function	sulfotransferaseactivity; transferase activity

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