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# 32-2453: HS3ST1 Recombinant Protein

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| **Alternative Name :** | 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,HS3S1. |

## Description

Source : Escherichia Coli. HS3ST1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 310 amino acids (21-307 a.a) and having a molecular mass of 36.2kDa.HS3ST1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Heparan Sulfate 3-O-Sulfotransferase 1 (HS3ST1), is sulfotransferase which uses 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the transfer of a sulfo group to position 3 of glucosamine residues in heparan. HS3ST1 catalyzes the rate limiting step in the biosynthesis of heparan sulfate (HSact). This modification is a vital part in the biosynthesis of anticoagulant heparan sulfate since it concludes the structure of the antithrombin pentasaccharide binding site.

## Product Info

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| **Amount :** | 10 µg |
| **Purification :** | Greater than 90.0% as determined by SDS-PAGE. |
| **Content :** | HS3ST1 protein solution (0. 25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 40% glycerol and 2mM DTT. |
| **Storage condition :** | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles. |
| **Amino Acid :** | MGSSHHHHHH SSGLVPRGSH MGSRPAELGQ QELLRKAGTL QDDVRDGVAP NGSAQQLPQT IIIGVRKGGT RALLEMLSLH PDVAAAENEV HFFDWEEHYS HGLGWYLSQM PFSWPHQLTV EKTPAYFTSP KVPERVYSMN PSIRLLLILR DPSERVLSDY TQVFYNHMQK HKPYPSIEEF LVRDGRLNVD YKALNRSLYH VHMQNWLRFF PLRHIHIVDG DRLIRDPFPE IQKVERFLKL SPQINASNFY FNKTKGFYCL RDSGRDRCLH ESKGRAHPQV DPKLLNKLHE YFHEPNKKFF ELVGRTFDWH. |

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