
Product Data Sheet

Product Name: HS3ST1 Human

Cat. No.: GP21811

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSRPAELGQ QELLRKAGTL QDDVRDGVAP NGSAQQLPQT IIIGVRKGGT RALLEMLSLH PDVAAAENEV HFFDWEEHYS HGLGWYLSQM PFSWPHQLTV EKTPAYFTSP KVPERVYSMN PSIRLLLILR DPSERVLSDY TQVFYNHMOK HKPYPSEIEF LVRDGRNLVD YKALNRSLYH VHMQNWLRFPLRHHIIVDG DRLIRDPFPE IQKVERFLKL SPQINASNFY FNKTKGFYCL RDSGRDRCLH ESKGRAHPQV DPKLLNKLHE YFHEPNKKFF ELVGRTFDWH.		
Formulation	HS3ST1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 40% glycerol and 2mM DTT.		

Introduction

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.

Stability

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA