

## Product datasheet for **TP309256L**

### HS3ST1 (NM\_005114) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human heparan sulfate (glucosamine) 3-O-sulfotransferase 1 (HS3ST1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209256 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAALLLGAVLLVAQPQLVPSRTAELGQQELLRKAGTLQDDVDRDGVAPNGSAQQLPQTHIIGVRKGGTRAL  
LEMLSLHPDVAAAENEVHFFDWEHSHGLGWYLSQMPFSWPHQLTVEKTPAYFTSPKVPERVYSMNPSI  
RLLLLLRDPSERVLSDYTQVFNHMQKHKPYPSIEEFLVRDGRNLNVDYKALNRSLYHVHMQNWLRFPLR  
HIHIVDGDRLRDPFPEIQKVERFLKLSQPINASNFYFNKTKGFYCLRDSGRDRCLHESKGRAHPQVDPK  
LLNKLHEYFHEPNKKFFELVGRTFDWH

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	33.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_005105</a>
Locus ID:	9957



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UniProt ID: [O14792](#), [A0A024R9R4](#)

RefSeq Size: 1965

Cytogenetics: 4p15.33

RefSeq ORF: 921

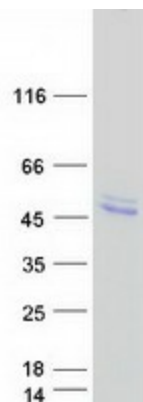
Synonyms: 3OST; 3OST1

**Summary:** 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 encoded by this gene 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Heparan sulfate biosynthesis

### Product images:



Coomassie blue staining of purified HS3ST1 protein (Cat# [TP309256]). The protein was produced from HEK293T cells transfected with HS3ST1 cDNA clone (Cat# [RC209256]) using MegaTran 2.0 (Cat# [TT210002]).