

Heparan Sulfate 3-O-Sulfotransferase 1 (HS3ST1)

Product Information

Cat#	DIA-741
Descriptions	Heparan Sulfate 3-O-Sulfotransferase 1 (HS3ST1) catalyzes 3-O-sulfation of glucosamine residues in heparan sulfate to generate antithrombin-binding pentasaccharide domains, confers anticoagulant activity, and is a core enzyme for bioengineered heparin biosynthesis.
Applications	Heparan Sulfate 3-O-Sulfotransferase 1 (HS3ST1) is suitable for anticoagulant heparin detection kits and antithrombin binding domain assay reagent development.
CAS No.	28-02-2338
Enzyme Commission Number	EC 2.8.2.23
Enzyme Source	CHO-derived
Reaction	3'-phosphoadenylyl sulfate + alpha-D-glucosaminy-[heparan sulfate] (n) = 3-sulfo-alpha-D-glucosaminy-[heparan sulfate] (n) + adenosine 3', 5'-bisphosphate + H ⁺
Activity Definition	Measured by its ability to transfer sulfate from PAPS to heparan sulfate. The specific activity is >30 pmol/min/μg, as measured under the described conditions.