

N-Deacetylase/N-Sulfotransferase 1 (NDST1)

Product Information

Cat#	DIA-778
Descriptions	N-Deacetylase/N-Sulfotransferase 1 (NDST1) is a bifunctional enzyme that performs both N-deacetylation and subsequent N-sulfation of glucosamine residues in heparan sulfate precursor chains, determines the overall sulfation level, and shapes heparan sulfate functional domains.
Applications	N-Deacetylase/N-Sulfotransferase 1 (NDST1) is used for heparan sulfate sulfation detection kits and glycosaminoglycan biosynthesis assay reagent development.
CAS No.	28-02-8043
Enzyme Commission Number	EC 2.8.2.8
Enzyme Source	CHO-derived
Reaction	3'-phosphoadenylyl sulfate + alpha-D-glucosaminyI-[heparan sulfate] (n) = adenosine 3', 5'-bisphosphate + 2 H ⁺ + N-sulfo-alpha-D-glucosaminyI-[heparan sulfate] (n)
Activity Definition	Measured by its ability to transfer sulfate from PAPS to heparan sulfate under the described conditions.