

Carbohydrate Sulfotransferase 10 (CHST10)

Product Information

Cat#	DIA-667
Descriptions	Carbohydrate Sulfotransferase 10 (CHST10) specifically catalyzes 3-O-sulfation of glucuronic acid residues in the HNK-1 glycan epitope, regulates neural cell adhesion and migration, and supports research on nervous system development and neural regeneration.
Applications	Carbohydrate Sulfotransferase 10 (CHST10) serves as a key raw material for HNK-1 epitope detection kits and neural cell adhesion assay reagent development.
CAS No.	28-2-1734
Enzyme Source	Chinese Hamster Ovary cell line, CHO-derived human Carbohydrate Sulfotransferase 10/CHST10 protein.
Reaction	3'-phosphoadenylyl sulfate + 3-O-{beta-D-GlcA- (1->[3]-alpha-D-Xyl- (1->3)-beta-D-GlcA- (1->] (n)-4)-beta-D-Xyl- (1->4)-Rib-ol-P-Rib-ol-P-3-beta-D-GalNAc- (1->3)-beta-D-GlcNAc- (1->4)-O-6-P-alpha-D-Man}-L-Thr-[protein] = 3-O-{O-3-S-beta-D-GlcA- (1->[3]-alpha-D-Xyl- (1->3)-beta-D-GlcA- (1->] (n)-4)-beta-D-Xyl- (1->4)-Rib-ol-P-Rib-ol-P-3-beta-D-GalNAc- (1->3)-beta-D-GlcNAc- (1->4)-O-6-P-alpha-D-Man}-L-Thr-[protein] + adenosine 3', 5'-bisphosphate + H ⁺
Activity Definition	Measured by its ability to transfer sulfate from PAPS to phenolphthalein glucuronic acid under the described conditions.