

ST3 Beta-Gal Alpha-2, 3-Sialyltransferase 5 (ST3GAL5/GM3 Synthase, Mouse)

Product Information

Cat#	DIA-864
Descriptions	ST3 Beta-Gal Alpha-2, 3-Sialyltransferase 5 (ST3GAL5/GM3 Synthase, Mouse) is the key enzyme for ganglioside GM3 biosynthesis, catalyzes α -2,3 sialylation of lactosylceramide, and regulates cell proliferation, differentiation and signal transduction pathways.
Applications	ST3 Beta-Gal Alpha-2, 3-Sialyltransferase 5 (ST3GAL5/GM3 Synthase, Mouse) is suitable for ganglioside GM3 detection kits and cell signal transduction assay reagent development.
CAS No.	24-3-91305
Enzyme Commission Number	EC 2.4.3.9
Enzyme Source	Chinese Hamster Ovary cell line, CHO-derived mouse ST3GAL5/GM3 Synthase protein.
Reaction	a beta-D-Gal- (1->4)-beta-D-Glc- (1->1)-Cer (d18:1 (4E)) + CMP-N-acetyl-beta-neuraminate = CMP + ganglioside GM3 (d18:1 (4E)) + H ⁺
Activity Definition	Measured by its ability to transfer Neu5Ac from CMP-Neu5Ac to alpha -lactose.