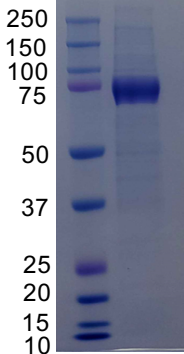


<b>Product Name</b>	Alpha-2,8-sialyltransferase 8B (ST8SIA2)
<b>Catalog Number</b>	#0030
<b>Alternate Names</b>	ST8SIA2, SIAT8B, STX, Sialyltransferase 8B (SIAT8-B), Sialyltransferase St8Sia II (ST8SialI), Sialyltransferase X (STX)
<b>Substrate Specificity</b>	May transfer sialic acid through alpha-2,8-linkages to the alpha-2,3-linked and alpha-2,6-linked sialic acid of N-linked oligosaccharides of glycoproteins and may be involved in PSA (polysialic acid) expression.
<b>References</b>	<a href="https://doi.org/10.1007/978-4-431-54240-7_77">https://doi.org/10.1007/978-4-431-54240-7_77</a>
<b>Expression Host</b>	HEK293
<b>Species of expressed protein</b>	Human
<b>Gene ID</b>	8128
<b>Protein RefSeq</b>	<a href="http://www.ncbi.nlm.nih.gov/RefSeq/np_006002">NP_006002</a>
<b>Uniprot</b>	<a href="http://www.uniprot.org/entry/Q92186">Q92186</a>
<b>Region Expressed</b>	AA 60-375
<b>Expressed Protein Sequence</b>	NGSSSPAVVDRSNESIKHNIQPASSKWRHNQTLRLRIRKQILKFLDAEKDISVLKGTLPK GDIIHYIFDRDSTMNVSQNLVELLPRTSPLKNKHFGTCAIVGNSGVLLNSGCGQEIDAHS FVIRCNLAPVQEYARDVGLKTDLVMTNPSVIQRAFEDLVNATWREKLLQRLHSLNGSIL WIPAFMARGGKERVEWVNELILKHHVNVRTAYPSLRLLHAVRGYWLTKVHIKRPTTGL LMYTLATRFCKQIYLYGFWPFLDQNNQNPVKYHYDLSLKYGYTSQASAHTMPLEFKALK SLHEQGALKLTVGQC DGAT
<b>Tag(s)</b>	N-terminal 6xHis, GFP
<b>Purity (%)</b>	>95%, by SDS-PAGE as visualized by Coomassie Blue Staining
<b>Formulation</b>	Supplied as a 0.2µm filtered solution in 20mM HEPES pH 7.0 and 100mM NaCl buffer, with 10% Glycerol and 0.05 % NaN <sub>3</sub> as preservative.
<b>Concentration</b>	1 mg/ml
<b>SDS-Page Size</b>	~100 kDa
<b>SDS-PAGE image</b>	

<b>Assay Buffer</b>	0.1 M sodium cacodylate buffer pH 6.0, 10 mM MgCl <sub>2</sub> , 2 mM CaCl <sub>2</sub> , 0.5 % Triton CF-54
<b>Donor Substrate</b>	CMP-NeuAc
<b>Assay Steps</b>	The activity was measured by incubating the purified enzyme solution in a reaction mixture consisting of 0.1 M sodium cacodylate buffer (pH 6.0), 10 mM MgCl <sub>2</sub> , 2 mM CaCl <sub>2</sub> , 0.5 % Triton CF-54, 100 mM CMP-[ <sup>14</sup> C]Neu5Ac, and 1 mg/ml acceptor substrate for 4–24 h at 37 °C and then analyzing the reaction product by SDS-PAGE, paper chromatography, or anion-exchange chromatography. The radioactive materials in glycoproteins can be visualized or measured with a bioimage analyzer or scintillation counter. (Please refer to <a href="https://doi.org/10.1007/978-4-431-54240-7_77">https://doi.org/10.1007/978-4-431-54240-7_77</a> )

**Shipping conditions**

This product is shipped as 0.2µm filtered product on dry ice. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage conditions:  
6 months**

6 months if stored at -80°C. Avoid repeated freeze thaws.