

# Human ST3GAL4 Protein

Cat. No. ST3-HM1L4HA

## Description

<b>Source</b>	Recombinant Human ST3GAL4 Protein is expressed from HEK293 with His tag at the C-Terminus and HA at the N-Terminus. It contains Glu41-Phe333.
<b>Accession</b>	Q11206.1
<b>Molecular Weight</b>	The protein has a predicted MW of 35.4 kDa. Due to glycosylation, the protein migrates to 48-53 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE

## Formulation and Storage

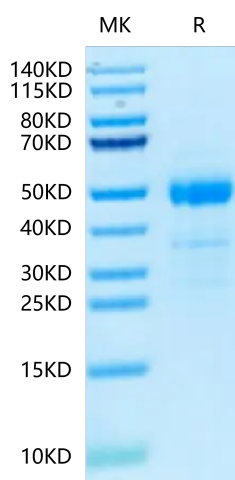
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

ST3GAL4 gene expression is altered in different cancer types, including cervical cancer. Several mRNA transcripts have been reported for this gene. ST3GAL4 encodes for  $\beta$ galactosidase  $\alpha$ 2,3sialyltransferase 4, involved in the biosynthesis of the tumour antigens sLe(x) and sulfosLe(x).

## Assay Data

### Tris-Bis PAGE



Human ST3GAL4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.