

# Human VSIG3/IGSF11 Protein

Cat. No. ISF-HM111

## Description

<b>Source</b>	Recombinant Human VSIG3/IGSF11 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu23-Gly241.
<b>Accession</b>	Q5DX21-1
<b>Molecular Weight</b>	The protein has a predicted MW of 24.31 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## 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 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Immunoglobulin superfamily member 11 (IgSF11), a homophilic adhesion molecule that preferentially expressed in the brain, is a dual-binding partner of the postsynaptic scaffolding protein PSD-95 and AMPA glutamate receptors (AMPA receptors).

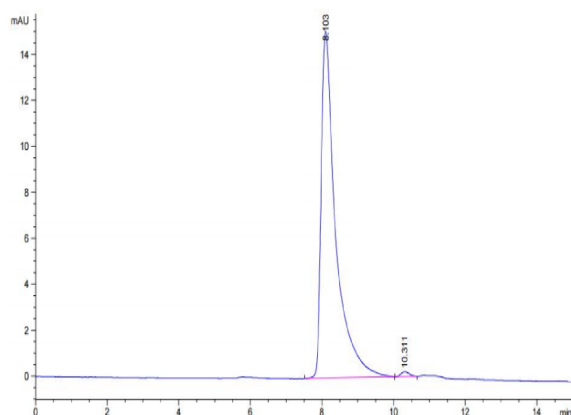
## Assay Data

### Bis-Tris PAGE



Human VSIG3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

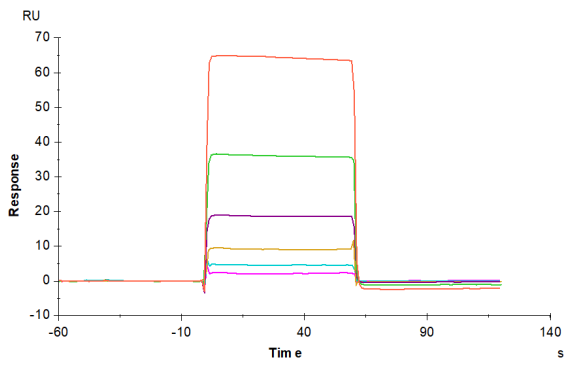
### SEC-HPLC



The purity of Human VSIG3 is greater than 95% as determined by SEC-HPLC.

Assay Data

SPR Data



Human B7-H5, hFc Tag captured on CM5 Chip via Protein A can bind Human VSIG3, His Tag with an affinity constant of 14.44  $\mu\text{M}$  as determined in SPR assay (Biacore T200).