# Human VSTM5 Protein

**Cat. No.** VSM-HM205

## Description

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|---|---|
| **Source** | Recombinant Human VSTM5 Protein is expressed from HEK293 with hFc tag at the C-Terminus. |
| | It contains Leu29-His147. |
| **Accession** | A8MXK1 |
| **Molecular Weight** | The protein has a predicted MW of 40 kDa. Due to glycosylation, the protein migrates to 52-56 kDa based on Tris-Bis PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Tris-Bis PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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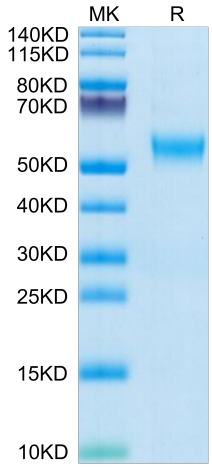
|---|---|
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state 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

V-set and transmembrane domain-containing protein 5 (Vstm5), a cell-adhesion-like molecule belonging to the Ig superfamily, was found in mouse brain. Knock-down of Vstm5 in cultured hippocampal neurons markedly reduced the complexity of dendritic structures, as well as the number of dendritic filopodia. Vstm5 also regulates neuronal morphology by promoting dendritic protrusions that later develop into dendritic spines.

## Assay Data

**Tris-Bis PAGE**




Human VSTM5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC**

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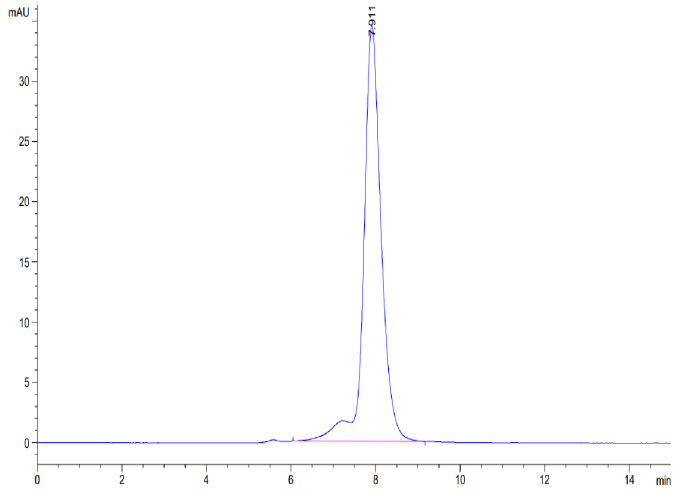
## Assay Data




The purity of Human VSTM5 is greater than 95% as determined by SEC-HPLC.