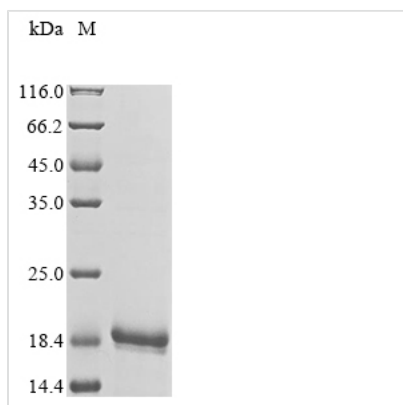




# Recombinant Human V-set and transmembrane domain-containing protein 5 (VSTM5), partial

<b>Product Code</b>	CSB-EP003050HU1
<b>Abbreviation</b>	Recombinant Human VSTM5 protein, partial
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	A8MXK1
<b>Form</b>	Liquid or Lyophilized powder
<b>Storage Buffer</b>	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	LQSQGVSLYIPQATINATVKEDILLSVEYSCHGVPTIEWTYSSNWGTQKIVEWK PGTQANISQSHKDRVCTFDNGSIQLFSVGVRDSGYVITVTERLGSSQFGTIVL HVSEILYEDLH
<b>Research Area</b>	Cell Biology
<b>Source</b>	E.coli
<b>Target Names</b>	VSTM5
<b>Protein Names</b>	Recommended name: V-set and transmembrane domain-containing protein 5
<b>Expression Region</b>	29-147aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-tagged
<b>Mol. Weight</b>	19.3 kDa
<b>Protein Length</b>	Partial
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

The region for expressing recombinant Human VSTM5 contains amino acids 29-147. This VSTM5 protein is theoretically predicted to have a molecular weight of 19.3 kDa. The VSTM5 protein was expressed in e.coli. The VSTM5 gene fragment has been modified by fusing the N-terminal 10xHis tag, providing convenience in detecting and purifying the recombinant VSTM5 protein during the following stages.

V-set and transmembrane domain-containing protein 5 (VSTM5) is a cell-adhesion-like molecule belonging to the immunoglobulin (Ig) superfamily. Studies have found that VSTM5 is an N-glycosylated membrane protein highly expressed in the central nervous system (CNS). It promoted the development of neuronal dendrites and protrusions, such as dendritic filopodia. During synaptogenesis, VSTM5 modulates synapse formation by modifying dendritic spine morphology and the distribution of actin. VSTM5 plays a role in regulating neuronal morphogenesis and migration during cortical development in the mouse brain. These findings suggest that VSTM5 could be a new membrane protein directly modulating membrane dynamics for neuronal morphogenesis and migration, potentially influencing neural circuits and brain functions.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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