Recombinant JAM2 protein (His tag)

Catalog Number	547107
Synonyms	JAM-B; Junctional adhesion molecule 2; JAM-2; Vascular endothelial junction-associated molecule; VE-JAM; CD antigen CD322
Species	Human
Expression System	E. coli
Accession	P57087
Molecular Weight	Predictes a molecular mass of 25.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	29-238
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 29-238 aa (P57087) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Junctional Adhesion Molecule B (JAM-B) Fragment (aa 29-238) is a high-purity protein designed for investigating cell-cell adhesion mechanisms. This fragment encompasses the complete Ig-like V-type and C2-type domains, making it an ideal tool for studying JAM-B's role in hematopoietic cell retention, leukocyte transmigration, and cellular interactions via its receptor JAM3. Junctional Adhesion Molecule B (JAM-B), encoded by the JAM2 gene, is a key transmembrane protein localized at tight junctions in epithelial and endothelial cells. It mediates heterotypic interactions with JAM3 to regulate critical biological processes including hematopoietic stem cell retention in bone marrow, leukocyte extravasation through tethering/rolling mechanisms involving integrin α4β1, and spermatogenesis via Sertoli-germ cell adhesion. Additional roles in neuronal myelination inhibition, myocyte fusion, and angiogenesis have been suggested. The protein's functional importance in cell adhesion and signaling makes it a valuable target for immunological, hematopoietic, and developmental biology research.