Recombinant IGSF5 protein (His tag)

Catalog Number	549104
Synonyms	IgSF5; Junctional adhesion molecule 4; JAM-4
Species	Human
Expression System	E. coli
Accession	Q9NSI5
Molecular Weight	Predictes a molecular mass of 23.81 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	39-238
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 39-238 aa (Q9NSI5) 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 IgSF5 (JAM-4) Fragment (aa 39-238) – a high-purity protein fragment encompassing the complete Ig-like V-type domains, ideal for investigating homophilic adhesion mechanisms and tight junction regulation in renal and intestinal epithelial models. Immunoglobulin superfamily member 5 (IgSF5), also known as Junctional Adhesion Molecule 4 (JAM-4), is a key tight junction protein that collaborates with MAGI1 to form an adhesion machinery critical for regulating permeability in kidney glomeruli and small intestinal epithelial cells. It mediates calcium-independent homophilic cell adhesion and localizes to apical cell membranes and tight junctions as a single-pass type I membrane protein. In testicular tissue, IgSF5 functions as a cell adhesion molecule involved in spermatogonia-Sertoli and Sertoli-Sertoli cell interactions, highlighting its diverse roles in cellular adhesion beyond junctional regulation.