Recombinant FLRT3 protein (His tag)

Catalog Number	541416
Synonyms	Fibronectin-like domain-containing leucine-rich transmembrane protein 3
Species	Human
Expression System	E. coli
Accession	Q9NZU0
Molecular Weight	Predictes a molecular mass of 39.12 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	29-356
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 29-356 aa (Q9NZU0) 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 FLRT3 (29-356) is a high-purity protein fragment encompassing the LRRNT domain of Leucine-rich repeat transmembrane protein FLRT3. This product is an essential tool for investigating cell adhesion, neuronal guidance, and developmental processes, offering researchers a specific domain-focused reagent for functional studies. FLRT3 (Fibronectin-like domain-containing leucine-rich transmembrane protein 3) is a key regulator in cell-cell adhesion, cell migration, and axon guidance, with roles that can be attractive or repulsive depending on interaction partners such as ADGRL3 and UNC5B. It contributes to neuronal spatial organization, glutamatergic synapse regulation, and embryonic morphogenesis, including ventral closure and endoderm migration. The protein localizes to the cell membrane, presynaptic regions, endoplasmic reticulum, focal adhesions, and axonal projections, with its ectodomain subject to proteolytic shedding. This recombinant fragment enables targeted analysis of the LRRNT domain's specific functions in these complex biological pathways.