# Recombinant FLRT2 protein (His tag)

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| **Catalog Number** | 537211 |
| **Synonyms** | Fibronectin-like domain-containing leucine-rich transmembrane protein 2 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | O43155 |
| **Molecular Weight** | Predictes a molecular mass of 38.48 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 38 kDa band. |

## Product Information

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| **Sequence Region** | 36-361 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >86%, 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 36-361 aa (O43155) were fused with 6His tag. |

## Storage & Handling

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human FLRT2 (Leucine-rich repeat transmembrane protein 2) fragment (aa 36-361) is a high-purity protein designed for studying cell adhesion, migration, and neuronal guidance. This 326-amino acid fragment includes the LRRNT domain, making it an ideal tool for domain-specific functional assays and interaction studies.<br>FLRT2 is a single-pass transmembrane protein involved in critical biological processes including cell-cell adhesion, cell migration, and axon guidance. It mediates adhesion through interactions with ADGRL3 and other latrophilins, and plays a repulsive role in neuron guidance via UNC5D binding. The protein is essential for normal cardiac basement membrane organization during embryogenesis and participates in fibroblast growth factor signaling. FLRT2 localizes to the cell membrane, endoplasmic reticulum, focal adhesions, and synapses, with proteolytic cleavage generating a secreted ectodomain that functions in the extracellular space and matrix. |