

FLRT2 Protein, Human (HEK293, His)

Cat. No.:	HY-P70201
Synonyms:	rHuLeucine-rich repeat transmembrane protein FLRT2/FLRT2, His; Leucine-Rich Repeat Transmembrane Protein FLRT2; Fibronectin-Like Domain-Containing Leucine-Rich Transmembrane Protein 2; FLRT2; KIAA0405
Species:	Human
Source:	HEK293
Accession:	O43155 (C36-S539)
Gene ID:	23768
Molecular Weight:	75-85 kDa

PROPERTIES

AA Sequence	<pre> C P S V C R C D R N F V Y C N E R S L T S V P L G I P E G V T V L Y L H N N Q I N N A G F P A E L H N V Q S V H T V Y L Y G N Q L D E F P M N L P K N V R V L H L Q E N N I Q T I S R A A L A Q L L K L E E L H L D D N S I S T V G V E D G A F R E A I S L K L L F L S K N H L S S V P V G L P V D L Q E L R V D E N R I A V I S D M A F Q N L T S L E R L I V D G N L L T N K G I A E G T F S H L T K L K E F S I V R N S L S H P P P D L P G T H L I R L Y L Q D N Q I N H I P L T A F S N L R K L E R L D I S N N Q L R M L T Q G V F D N L S N L K Q L T A R N N P W F C D C S I K W V T E W L K Y I P S S L N V R G F M C Q G P E Q V R G M A V R E L N M N L L S C P T T T P G L P L F T P A P S T A S P T T Q P P T L S I P N P S R S Y T P P T P T T S K L P T I P D W D G R E R V T P P I S E R I Q L S I H F V N D T S I Q V S W L S L F T V M A Y K L T W V K M G H S L V G G I V Q E R I V S G E K Q H L S L V N L E P R S T Y R I C L V P L D A F N Y R A V E D T I C S E A T T H A S Y L N N G S N T A S S H E Q T T S H S M G S </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The FLRT2 protein operates in cell-cell adhesion, cell migration, and axon guidance, participating in these processes through various molecular interactions. It facilitates cell-cell adhesion by engaging with ADGRL3 and potentially other latrophilins present on the surface of neighboring cells. In brain development, FLRT2 may contribute to the migration of cortical neurons by interacting with UNC5D. Additionally, it plays a role in axon growth cone collapse and functions as a repulsive cue in neuron guidance, particularly through its interaction with UNC5D and potentially other UNC-5 family members. FLRT2 is implicated in fibroblast growth factor-mediated signaling cascades. It is essential for the proper organization of the cardiac basement membrane during embryogenesis and contributes to normal embryonic epicardium and heart morphogenesis. The protein self-associates via leucine-rich repeats, forming homooligomers. FLRT2 interacts with FGFR1 and FGFR2, as well as with ADGRL1/LPHN1, ADGRL3, UNC5D, UNC5B (with lower affinity), and FN1 through its extracellular domain, highlighting its diverse roles in cellular processes and developmental events.

Caution: Product has not been fully validated for medical applications. For research use only.

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