

## FLRT1 Protein, Human (504a.a, HEK293, His)

<b>Cat. No.:</b>	HY-P70925
<b>Synonyms:</b>	Leucine-Rich Repeat Transmembrane Protein FLRT1; Fibronectin-Like Domain-Containing Leucine-Rich Transmembrane Protein 1; FLRT1
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9NZU1 (I21-P524)
<b>Gene ID:</b>	23769
<b>Molecular Weight:</b>	60-85 kDa

### PROPERTIES

#### AA Sequence

I D S T T C P S V C	R C D N G F I Y C N	D R G L T S I P A D	I P D D A T T L Y L
Q N N Q I N N A G I	P Q D L K T K V N V	Q V I Y L Y E N D L	D E F P I N L P R S
L R E L H L Q D N N	V R T I A R D S L A	R I P L L E K L H L	D D N S V S T V S I
E E D A F A D S K Q	L K L L F L S R N H	L S S I P S G L P H	T L E E L R L D D N
R I S T I P L H A F	K G L N S L R R L V	L D G N L L A N Q R	I A D D T F S R L Q
N L T E L S L V R N	S L A A P P L N L P	S A H L Q K L Y L Q	D N A I S H I P Y N
T L A K M R E L E R	L D L S N N N L T T	L P R G L F D D L G	N L A Q L L L R N N
P W F C G C N L M W	L R D W V K A R A A	V V N V R G L M C Q	G P E K V R G M A I
K D I T S E M D E C	F E T G P Q G G V A	N A A A K T T A S N	H A S A T T P Q G S
L F T L K A K R P G	L R L P D S N I D Y	P M A T G D G A K T	L A I H V K A L T A
D S I R I T W K A T	L P A S S F R L S W	L R L G H S P A V G	S I T E T L V Q G D
K T E Y L L T A L E	P K S T Y I I C M V	T M E T S N A Y V A	D E T P V C A K A E
T A D S Y G P T T T	L N Q E Q N A G P M	A S L P	

**Biological Activity** Immobilized Human FLRT1, His Tag at 0.5 µg/mL (100 µl/well) on the plate. Dose response curve for Anti-FLRT1 Antibody, mFc Tag with the EC<sub>50</sub> of 3.5 ng/mL determined by ELISA.

**Appearance** Lyophilized powder

**Formulation** Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2 or PBS, pH 7.4.

**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<sub>2</sub>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.

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## DESCRIPTION

### Background

FLRT1 emerges as a key participant in fibroblast growth factor (FGF)-mediated signaling pathways, orchestrating the activation of MAP kinases. In the context of neurite outgrowth, FLRT1 plays a pivotal role by facilitating FGFR1-mediated activation of downstream MAP kinases, leading to a significant increase in both neurite number and length. Beyond its involvement in neural processes, FLRT1 is implicated in cell-cell adhesion and cell guidance through its interactions with ADGRL1/LPHN1 and ADGRL3. These interactions, particularly with FGFR1, ADGRL1/LPHN1, and ADGRL3, underscore FLRT1's versatility and its contribution to diverse cellular functions, ranging from neural development to cell adhesion and guidance.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA