

FLRT2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76934
Synonyms:	Leucine-rich repeat transmembrane protein FLRT2; Flrt2; Kiaa0405
Species:	Mouse
Source:	HEK293
Accession:	Q8BLU0 (C36-S539)
Gene ID:	399558
Molecular Weight:	Approximately 60-80 kDa due to the glycosylation.

PROPERTIES

AA Sequence

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

Biological Activity Measured by the ability of the immobilized protein to support the adhesion of Neuro-2A mouse neuroblastoma cells. The ED₅₀ for this effect is 0.8205 µg/mL, corresponding to a specific activity is 1.219×10³ units/mg.

Appearance Lyophilized powder

Formulation Lyophilized from a 0.2 µm filtered solution of 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 ddH₂O. 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

FLRT2 protein exerts a crucial role in diverse cellular processes, including cell-cell adhesion, cell migration, and axon guidance. Its interaction with ADGRL3 and potentially other latrophilins expressed on adjacent cells facilitates cell-cell adhesion, while also playing a role in the migration of cortical neurons during brain development through interaction with UNC5D. In axon guidance, FLRT2 mediates growth cone collapse and exhibits a repulsive effect on neuron guidance, interacting with UNC5D and potentially other UNC-5 family members. Additionally, FLRT2 is implicated in fibroblast growth factor-mediated signaling cascades. Vital for normal cardiac basement membrane organization during embryogenesis, FLRT2 is also required for proper embryonic epicardium and heart morphogenesis. Through self-association via leucine-rich repeats, FLRT2 forms homooligomers and interacts with various partners, including FGFR1, FGFR2, ADGRL1/LPHN1, ADGRL3, UNC5D, UNC5B, and FN1.

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

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