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Recombinant human FLRT3 protein

Catalog Number: ATGP4132

PRODUCT INFORMATION

Expression system
HEK293

Domain
29-528aa

UniProt No.
Q9NZU0

NCBI Accession No.
NP_037413.1

Alternative Names
fibronectin leucine rich transmembrane protein 3, HH21, leucine-rich repeat transmembrane protein FLRT3, Fibronectin-like domain-containing leucine-rich transmembrane protein 3

PRODUCT SPECIFICATION

Molecular Weight
57.3 kDa (506aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Measured by the ability of the immobilized protein to support the adhesion of Neuro-2a neuroblast cells. When cells are added to human FLRT3 coated plates 5 ug/ml. This effect is more to 40%.

Tag
His-Tag

Application
SDS-PAGE, Bioactivity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

FLRT3, also known as leucine-rich repeat transmembrane protein, is a member of the fibronectin leucine rich transmembrane protein (FLRT) family. It contains 10 N-terminal leucine-rich repeats flanked by cysteine-rich areas, and a juxtamembrane fibronectin type III domain. And It expressed in kidney, brain, pancreas, skeletal muscle, lung, liver, placenta, and heart. The members of the FLRT family may have a function in cell adhesion and/or receptor signaling. The fibronectin domain is responsible for binding to FGF receptors, and is thought to regulate FGF signaling during development. The LRR domains are responsible for both the localization in areas of cell contact and homotypic cell-cell association. Also, It may have a crucial role in regulating cellular adhesion between the epithelial apical ridge and the underlying mesenchyme and in establishing the dorso-ventral position of the ridge. Recombinant human FLRT3, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

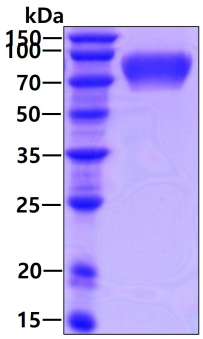
KSCPSVCRCD AGFIYCNDRF LTSIPTGIPE DATTLYLQNN QINNAGIPSD LKNLLKVERI YLYHNSLDEF PTNLPKYVKE LHLQENNIRT ITYDSLSKIP YLEELHLDDN SVSAVSIEEG AFRDSNYLRL LFLSRNHLST IPWGLPRTIE ELRLDDNRIS TISSPSLQGL TSLKRLVLDG NLLNNHGLGD KVFFNLVNLT ELSLVRNSLT AAPVNLPGTN LRKLYLQDNH INRVPPNAFS YLRQLYRLDM SNNNLSNLPQ GIFDDLDNIT QLILRNNPWY CGCKMKWVRD WLQSLPVKVN VRGLMCQAPE KVRGMAIKDL NAELFDCKDS GIVSTIQITT AIPNTVYPAQ GQWPAPVTKQ PDIKNPKLTK DHQTTGSPSR KTITITVKSV TSDTIHISWK LALPMTALRL SWLKLGHSPA FGSITETIVT GERSEYLVTA LEPDSPYKVC MVPMETSNLY LFDETPVCIE TETAPLRMYN PTTTLNREQE KEPYKNPNLP <HHHHHH>

General References

Lacy S E., et al. (1999) Genomics. 62:417-426.
Haines B. P., et al. (2006) Dev. Biol. 297:14-25.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.