

Recombinant Human Fibronectin Leucine Rich Transmembrane Protein 3, His-tagged

Cat. No. FLRT3-3201H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant HumanFLRT3(extracellular domain, Met 1-Gly 528), fused with a polyhistidine tag at the C-terminus, was expressed in*Human cells*.

Species

Human

Source

Human Cells

ProteinLength

1-528 a.a.

Description

Leucine-rich repeat transmembrane protein FLRT3, also known as Fibronectin-like domain-containing leucine-rich transmembrane protein 3, and FLRT3, is a single-pass type I membrane protein which belongs to the fibronectin leucine rich transmembrane protein (FLRT) family. FLRT3 contains one fibronectin type-III domain and ten LRR (leucine-rich) repeats and is expressed in kidney, brain, pancreas, skeletal muscle, lung, liver, placenta, and heart. FLRT1, FLRT2 and FLRT3 are members of the FLRT family. They may function in cell adhesion and/or receptor signalling. Their protein structures resemble small leucine-rich proteoglycans found in the extracellular matrix. FLRT3 shares 55% amino acid sequence identity with FLRT1 and 44% identity with FLRT2. Two alternatively spliced transcript variants encoding the same protein have been described. Paraxial protocadherin (PAPC) and FLRT3 form a functional complex with cadherins and PAPC functions as a molecular "governor" to maintain FLRT3 activity at the optimal level for physiological regulation of C-cadherin adhesion, cell sorting, and morphogenesis.

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Sequences of amino acids	649aa
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Predicted N terminal	Lys 28
Molecular Mass	The recombinant human FLRT3 consists of 511 amino acids and has a predicted molecular mass of 58 kDa. The apparent molecular mass of rh FLRT3 is approximately 60-70 KDa in SDS-PAGE under reducing conditions due to glycosylation.
Formulation	Lyophilized from sterile PBS , pH 7.4
Purity	> 98 % as determined by SDS-PAGE
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	FLRT3 fibronectin leucine rich transmembrane protein 3 [Homo sapiens]
Synonyms	FLRT3;fibronectin leucine rich transmembrane protein 3; KIAA1469; leucine-rich repeat transmembrane protein FLRT3; leucine-rich repeat transmembrane protein FLRT3; Fibronectin-like domain-containing leucine-rich transmembrane protein 3; UNQ856/PRO1865
Gene ID	23767

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mRNA Refseq	NM_013281
Protein Refseq	NP_037413
MIM	604808
UniProt ID	Q9NZU0
Chromosome Location	20p11
Function	protein binding, bridging; receptor signaling protein activity

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