

Recombinant Human LRRTM4 Protein (His Tag)

Catalog No. PKSH031136

Note: Centrifuge before opening to ensure complete recovery of vial contents.

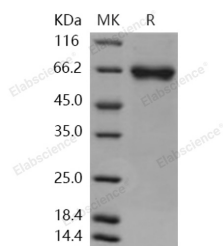
Description

Synonyms	UNQ3075/PRO9907;FLJ12568;MGC120633;MGC120636
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Lys 424
Accession	NP_001128217.1
Calculated Molecular Weight	46.6 kDa
Observed molecular weight	65 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 97 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

Background

Leucine-rich repeat transmembrane neuronal protein 4, also known as LRRTM4, is a single-pass type I membrane protein which belongs to the LRRTM family. LRRTM4 is expressed in the limb mesenchyme, neural tube, caudal mesoderm and

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in three distinct regions of the head. LRRTM4 may play a role in the development and maintenance of the vertebrate nervous system. Leucine-rich repeat containing proteins are involved in protein-protein interactions and they regulate numerous cellular events during nervous system development and disease. Human and mouse LRRTMs are highly conserved, and orthologous genes exist in other vertebrates but not in invertebrates. LRRTM mRNAs are predominantly expressed in the nervous system and that each LRRTM possesses a specific, partially nonoverlapping expression pattern. The structure and expression profile of LRRTM mRNAs suggest that they may have a role in the development and maintenance of the vertebrate nervous system. All LRRTMs, except LRRTM4, are located in the introns of different alpha-catenin genes, suggesting coevolution of these two gene families.