

Recombinant Human SLITRK1 Protein (His & Fc Tag)

Catalog Number:PKSH031668



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

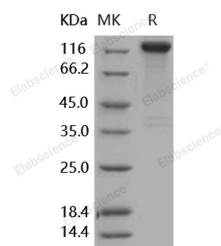
Description

| | |
|------------------------------------|---|
| Synonyms | FLJ54428;KIAA0918;KIAA1910;LRRC12;RP11-395N17.1;SLITRK1;TTM |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Met 1-Ser 616 |
| Accession | NP_443142.1 |
| Calculated Molecular Weight | 95.0 kDa |
| Observed molecular weight | 130-150 kDa |
| Tag | C-His-Fc |

Properties

| | |
|-----------------------|--|
| Purity | > 90 % 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 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5 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



> 90 % as determined by reducing SDS-PAGE.

Background

SLITRK1 (Slit and Trk-like family member 1) is a integral membrane protein belonging to the SLITRK family consists of at least 6 members (SLITRK1-6). They are named and characterized by the presence of two leucine-rich repeats (LRRs) in the extracellular domain similar to those found in a secreted axonal growth-controlling protein; Slit; as well as a C-terminal domain with homology to Trk neurotrophin tyrosine kinase receptors. Expression of SLITRKs are highly restricted to neural tissues; and are identified as the neuronal components modulating the neurite outgrowth. More specifically; SLITRK1 expression is found in the mature neurons of the cerebrum; thalamus and hippocampus; and induces unipolar neurites in cultured neuronal cells. Human SLITRK1 is a 696 amino acid precursor protein; and one truncating frameshift mutation (448 aa) has been linked to Tourette's syndrome; a genetically influenced developmental

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neuropsychiatric disorder characterized by chronic vocal and motor tics. In addition; all SLITRK genes are differentially expressed in brain tumors; such as astrocytoma; oligodendroglioma; glioblastoma; and are suggested to be useful molecular indicators of brain tumor properties.

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