

# Recombinant Human SLITRK1 Protein (His Tag)

Catalog Number:PKSH031667



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

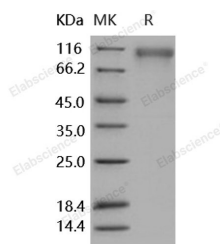
## Description

<b>Synonyms</b>	FLJ54428;KIAA0918;KIAA1910;LRRC12;RP11-395N17.1;SLITRK1;TTM
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Ser 616
<b>Accession</b>	NP_443142.1
<b>Calculated Molecular Weight</b>	69.8 kDa
<b>Observed molecular weight</b>	105-115 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % 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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