

SLITRK1 Protein, Human (HEK293, His-Fc)

Cat. No.:	HY-P76077
Synonyms:	SLIT and NTRK-like protein 1; Leucine-rich repeat-containing protein 12; SLITRK1; KIAA1910; LRRC12
Species:	Human
Source:	HEK293
Accession:	Q96PX8 (M1-S616)
Gene ID:	114798
Molecular Weight:	130-150 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SLITRK1 plays a crucial role in synaptogenesis, actively promoting the differentiation of excitatory synapses, as evidenced by its involvement in synaptic maturation. Additionally, SLITRK1 contributes to the enhancement of neuronal dendrite outgrowth, underscoring its significance in neuronal development and morphology. The protein is capable of forming homodimers, with this dimerization process specifically dependent on the presence of the repeat LRR 2 domain. Moreover, SLITRK1 interacts with various members of the 14-3-3 protein family, including YWHAB, YWHAE, YWHAG, YWHAH, SFN, YWHAQ, and YWHAZ, suggesting potential regulatory roles and cellular functions mediated by these interactions.
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Caution: Product has not been fully validated for medical applications. For research use only.

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