

SLITRK4 Protein, Human, Recombinant (His)

General Information

Synonyms:	DKFZp547M2010;SLIT and NTRK like family member 4
Protein Construction:	A DNA sequence encoding the human SLITRK4 (Q8IW52) (Met 1-Pro 616) was fused with a polyhistidine tag at the C-terminus. Predicted N terminal: Asp 19
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8IW52
Molecular Weight:	68.6 kDa (predicted); 85 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 92 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

SLIT and NTRK-like family proteins 4 is a member of the SLIT and NTRK-like family. This protein is characterized as an integral membrane protein that has two leucine-rich repeat (LRR) domains and a carboxy-terminal domain that is partially similar to SLIT protein and TRK Neurotrophin. There are six members in this family: SLITRK1, SLITRK2, SLITRK3, SLITRK4, SLITRK5, and SLITRK6. Their expression was detected mainly in the brain, but the expression profile of each SLITRK was unique. Each of these members is located in nervous system except for SLITRK6. SLITRK

expression was also investigated in various types of brain tumor tissue.

Reference

Beaubien F, et al. (2009) Differential expression of slitrk family members in the mouse nervous system. *Developmental Dynamics*. 238 (12) : 3285-96.

Aruga J, et al. (2003) Human SLITRK family genes: genomic organization and expression profiling in normal brain and brain tumor tissue. *Gene*. 315 (2): 87-94.

Milde T, et al. (2007) A novel family of slitrk genes is expressed on hematopoietic stem cells and leukemias. *Leukemia*. 21: 824-7.

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