# Data Sheet (Cat.No.TMPY-03063)

TargetMol

## SLITRK6 Protein, Human, Recombinant (His)

### General Information

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|---|---|
| Synonyms: | SLIT and NTRK like family member 6;SLITRK6;DFNMYP |
| Protein Construction: | A DNA sequence encoding the human SLITRK6 (Q9H5Y7) (Met1-Ser608) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Ser 27 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | Q9H5Y7 |
| Molecular Weight: | 62.2 kDa (predicted); 89 kDa (reducing conditions) |

### QC Testing

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|---|---|
| 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: | > 85 % 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.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

### Protein Background

SLITRK6 belongs to the SLITRK family. Members of this family share two conserved leucine-rich repeat domains in the extracellular domain. SLITRK6 contains 11 LRR (leucine-rich) repeats, 2 LRRCT domains and 2 LRRNT domains. Expression of SLITRK proteins is highly restricted to neural and brain tumor tissues, but varies within the protein family. SLITRK6 is highly expressed in putamen with no expression in cerebral cortex. It also can be detected in adult and fetal lung and fetal liver. It can suppress neurite outgrowth. In adult brain, SLITRK6 has a critical role in

the development of the inner ear neural circuit.

Reference

Strausberg RL,et al.(2003) Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Proc Natl Acad Sci. 99(26):16899-903.
Wiemann S,et al.(2001) Toward a Catalog of Human Genes and Proteins: Sequencing and Analysis of 500 Novel Complete Protein Coding Human cDNAs. Genome Res. 11(3):422-35.
Hartley JL,et al.(2001) DNA Cloning Using In Vitro Site-Specific Recombination. Genome Res. 10 (11):1788-95.