# Data Sheet (Cat.No.TMPY-03506)

TargetMol

## VILIP1 Protein, Human, Recombinant

### General Information

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|---|---|
| Synonyms: | visinin-like 1;VILIP-1;VILIP;HUVISL1;HLP3;HPCAL3 |
| Protein Construction: | A DNA sequence encoding human VSNL1 (Gly2-Lys191) was expressed with a N-terminal Met. Predicted N terminal: Met |
| Species: | Human |
| Expression Host: | E. coli |
| Molecular Weight: | 22.1 kDa (predicted); 19 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: | > 95 % as determined by SDS-PAGE |
| Endotoxin: | Please contact us for more information. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μm filter, containing 50 mM Tris, 10% glycerol, pH 8.0.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

VILIP-1, also known as VSNL1, is strongly expressed in granule cells of the cerebellum where it associates with membranes in a calcium-dependent manner and modulates intracellular signaling pathways of the central nervous system by directly or indirectly regulating the activity of adenylyl cyclase. VILIP-1 gene is a member of the visinin/recoverin subfamily of neuronal calcium sensor proteins. Alternatively spliced transcript variants have been observed, but their full-length nature has not been determined.

Reference

Burgoyne RD. 2007, Nat Rev Neurosci. 8 (3): 182-93.
Kose A. et al., 1990, Brain Res. 518 (1-2): 209-17.
Polymeropoulos MH. et al., 1996, Genomics. 29 (1): 273-5.



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