# Recombinant Human Visinin-like 1

**Cat. No.** VSNL1-1406H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant human Visinin-like protein-1 was expressed in*E.coli*and purified by using conventional chromatography. MW =22.1 kDa (191aa). |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | Visinin-like protein-1, also known as VILIP-1, belongs to a family of neuronal calcium sensor proteins. VILIP-1 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. Also, it is expressed in pancreatic beta-cells. VILIP-1 elevation enhances insulin secretion in cAMP-associated manner. Down-regulation of VILIP-1 decreased cAMP accumulation but increased insulin gene transcription. |
| **Amino Acid Sequence** | MGKQNSKLAP EVMEDLVKST EFNEHELKQW YKGFLKDCPS GRLNLEEFQQ LYVKFFPYGD ASKFAQHAFR TFDKNGDGTI DFREFICALS ITSRGSFEQK LNWAFNMYDL DGDGKITRVE MLEIIEAIYK MVGTVIMMKM NEDGLTPEQR VDKIFSKMDK NKDDQITLDE FKEAAKSDPS IVLLLQCDIQ K |
| **Form** | Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol. |
| **Purity** | > 95 % by SDS – PAGE. |

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| **Concentration** | 1 mg/ml (determined by Bradford assay). |
| **Endotoxin Level** | < 1.0 EU per 1 μg of protein (determined by LAL method). |
| **Storage** | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |

## GENE INFORMATION

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| **Gene Name** | VSNL1 visinin-like 1 [ Homo sapiens ] |
| **Synonyms** | VSNL1; visinin-like 1; HLP3; VILIP; HPCAL3; HUVISL1; VILIP-1; OTTHUMP00000200482; OTTHUMP00000200483; hippocalcin-like protein 3; VLP-1; Hippocalcin-like protein 3; VISL1 |
| **Gene ID** | 7447 |
| **mRNA Refseq** | NM_003385 |
| **Protein Refseq** | NP_003376 |
| **MIM** | 600817 |
| **UniProt ID** | P62760 |
| **Chromosome Location** | 2p24.3 |
| **Function** | calcium ion binding |

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