

Recombinant Human Visinin-Like 1, His-tagged

Cat. No. VSNL1-236H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Visinin-Like Protein-1 (His-tagged) produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain. The Visinin-Like Protein-1 contains 201 amino acids and has a molecular mass of 23.4 kDa. The Visinin-Like Protein-1 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	VSNL1 is a member of the visinin/recoverin subfamily of neuronal calcium sensor proteins. VILIP1 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. Changes in cellular expression of VSNL1 were found in hippocampi of schizophrenics, since more interneurons showed immunoreactivity. VILIP1 is expressed in pancreatic beta-cells. VILIP1 elevation enhances insulin secretion in cAMP-associated manner. Down-regulation of VILIP-1 decreased cAMP accumulation but increased insulin gene transcription. VILIP-1 interacts with cell membrane and actin-based cytoskeleton. VSNL1 modulates cAMP-accumulation in C6 glioma cells. HLP3 modulates cGMP-accumulation in transfected neural cells and cerebellar granule neurons.
Amino Acid Sequence	MKHHHHHHAS MGKQNSKLAP EVMEDLVKST EFNEHELKQW YKGFLKDCPS GRLNLEEFQQ LYVKFFPYGD ASKFAQHAFR TFDKNGDGTI DFREFICALS

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ITSRGSFEQK LNWAFNMYDL DGDGKITRVE MLEIIEAIYK MVGTVIMMKM
NEDGLTPEQR VDKIFSKMDK NKDDQITLDE FKEAAKSDPS IVLLQCDIQ K.

Physical Appearance Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation The sterile filtered concentrated (0.5mg/ml) protein solution was lyophilized with 20mM Tris & 20mM NaCl pH-7.5.

Purity Greater than 95% as determined by SDS-PAGE.

Solubility Add sterile deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely.

GENE INFORMATION

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](#)

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Chromosome	2p24.3
Location	