
Product Data Sheet

Product Name: VSNL1 Human, His
 Cat. No.: GP25002
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	VISL1; VISL-1; VIS1; VIS-1; VILIP; HLP3; Hippocalcin-like protein 3; VSNL1; VILIP-1; VILIP1; HLP-3; HPCAL3; HUVISL1; Visinin-like protein 1.		
Amino Acid Sequence	MKHHHHHHAS MGKQNSKLAP EVMEDLVKST EFNEHELKQW YKGFLKDCPS GRLNLEEFQQ LYVKFFPYGD ASKFAQHAFR TFDKNGDGTI DFREFICALS ITRGSFEQK LNWAFNMYDL DGDGKITRVE MLEIIEAIYK MVGTVIMMKM NEDGLTPEQR VDKIFSKMDK NKDDQITLDE FKEAAKSDPS IVLLLQCDIQK.		
Solubility	Add sterile deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely.		
Formulation	The sterile filtered concentrated (0.5mg/ml) protein solution was lyophilized with 20mM Tris & 20mM NaCl pH-7.5.		

Introduction

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/ thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time.

Background

Visinin-Like Protein-1 Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 201 amino acids and having a molecular mass of 23.4 kDa. Visinin-Like Protein-1 is fused to His tag at N-Terminus. The protein's amino acid sequence corresponds to UniProtKB/Swiss-Prot entry P62760. Visinin-Like Protein-1 is purified by proprietary chromatographic techniques.

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