9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

VSNL1 Human, His

Visinin-Like Protein-1 Human Recombinant, His Tag
RCP2565

Product Overview

Name	VSNL1 Human, His
Description	
Visinin-Like Protein-1 Human Recombinant, His Tag	
Accession (Primary)	P62760
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.	
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 hipppocampi 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.	
Source	
Escherichia Coli.	
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.	
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.	
Purity	
Greater than 90% as determined by SDS-PAGE.	

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Amino acid sequence

MKHHHHHHAS MGKQNSKLAP EVMEDLVKST EFNEHELKQW YKGFLKDCPS GRLNLEEFQQ LYVKFFPYGD

ASKFAQHAFR TFDKNGDGTI DFREFICALS ITSRGSFEQK 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.

Precautions

VSNL1 Human, His is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P62760)