
Product Data Sheet

Product Name: VSNL1 Human
 Cat. No.: GP25001
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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	MGKQNSKLAP EVMEDLVKST EFNEHELKQW YKGFLKDCPS GRNLLEEFQQ LYVKFFPYGD ASKFAQHAFR TFDKNGDGTI DFREFICALS ITSRGSFEQK LNWAFNMYDL DGDGKITRVE MLEIIEAIYK MVGTVIMMKM NEDGLTPEQR VDKIFSKMDK NKDDQITLDE FKEAAKSDPS IVLLLQCDIQ K.		
Formulation	The VSNL1 protein solution contains 20mM Tris-HCl buffer (pH8.0), 1mM DTT and 10% glycerol.		

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. 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

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

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Background

VSNL1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 191 amino acids (1-191 a.a.) and having a molecular mass of 22.1kDa. The VSNL1 is purified by proprietary chromatographic techniques.

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