

Recombinant human Visinin-like protein-1/VILIP protein

Catalog Number: ATGP0384

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-191aa

UniProt No.

P62760

NCBI Accession No.

NP_003376

Alternative Names

VILIP, VILIP-1, VLP-1, HLP3, VSNL1, Hippocalcin like protein 3, HLP 3, HPCAL 3, HPCAL3, HuVISL1, Neurocalcin alpha, NVL 1, NVL1, VILIP, Visinin.Visinin like 1, Visinin like protein 1.VISL 1.

PRODUCT SPECIFICATION

Molecular Weight

22.1 kDa (191aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT,10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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. Recombinant human Visinin-like protein-1 was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

MGKQNSKLAP EVMEDLVKST EFNEHELKQW YKGFLKDCPS GRLNLEEFQQ LYVKFFPYGD ASKFAQHAFR TFDKNGDGTI
DFREFICALS ITSRGSFEQK LNWAFNMYDL DGDGKITRVE MLEIIEAIYK MVGTVIMMKM NEDGLTPEQR VDKIFSKMDK
NKDDQITLDE FKEAAKSDPS IVLLLQCDIQ K

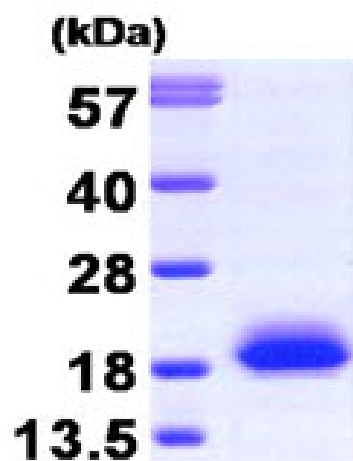
General References

Lenz SE., et al. (1996) *Biochem Biophys Res Commun.* 225(3):1078-83.

Braunewell KH., et al. (1997) *J Neurochem.* 68(5):2129-39.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)