Data Sheet (Cat.No.TMPJ-01048)

TargetMol

VSNL1 Protein, Human, Recombinant (His)

General Information

Synonyms:	VISL1;Visinin-Like Protein 1;Hippocalcin-Like Protein 3;HLP3;VILIP;VLP-1;VSNL1
Protein Construction:	Met1-Lys191
Species:	Human
Expression Host:	E. coli
Accession:	P62760
Molecular Weight:	32 KDa (reducing condition)
AA Sequence:	Met1-Lys191

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris-HCl, 20 mM NaCl, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Visinin-Like Protein 1 (VILIP) is a a member of the Visinin/Recoverin subfamily of neuronal calcium sensor proteins. VILIP is strongly expressed in the 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. It has been shown that VILIP regulates the inhibition of rhodopsin phosphorylation in a Calcium-dependent manner in vitro.

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