

Recombinant human HPCAL1 protein

Catalog Number: ATGP0716

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-193aa

UniProt No.

P37235

NCBI Accession No.

NP_002140

Alternative Names

Hippocalcin-like 1, BDR1, Calcium-binding protein BDR-1, Hippocalcin-like protein 1, HLP2, VILIP-3, visinin-like protein 3, VILIP3

PRODUCT SPECIFICATION

Molecular Weight

24.4 kDa (213aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 1mM DTT, 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

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

HPCAL1, also known as VILIP-3, is a member of neuron-specific calcium-binding proteins family found in the retina and brain. It is highly similar to human hippocalcin protein and nearly identical to the rat and mouse hippocalcin like-1 proteins. It is involved in the calcium-dependent regulation of rhodopsin phosphorylation and may be of relevance for neuronal signalling in the central nervous system. Recombinant human HPCAL1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

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techniques.

Amino acid Sequence

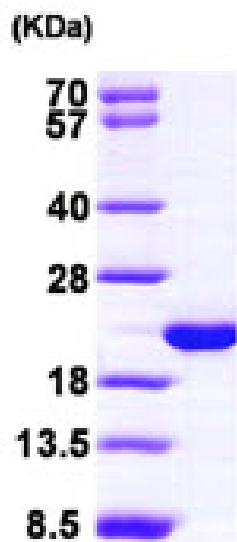
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IYANFFPYGD ASKFAEHVFR TFD TNGDGTI DFREFIIALS VTSRGKLEQK LKWAFSMYDL DGNGYISRSE MLEIVQAIYK
MVSSVMKMPE DESTPEKRTD KIFRQMDTNN DGKLSLEEFI RGAKS DPSIV RLLQCDPSSA SQF

General References

Fu J., et al. (2009) J Biol Chem. 284(40):27577-86.
Spilker C., et al. (2003) Mol Cell Neurosci. 24(3):766-78.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)