

## HPCAL1 Human

**Description:**HPCAL1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 213amino acids (1-193a.a.) and having a molecular weight of 24.4kDa. The HPCAL1 is fused to 20a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #:PRPS-261

For research use only.

**Synonyms:**Hippocalcin-Like 1, HLP2, BDR1, Calcium-Binding protein BDR-1, Visinin-Like protein 3, VILIP-3

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGKQNSKLRP EVLQDLRENT  
EFTDHELQEW YKGLKDCPT GHLTVDEFKK IYANFFPYGD ASKFAEHVFR TFDTNGDGTI  
DFREFIALS VTSRGKLEQK LKWAFSMYDL DGNGYISRSE MLEIVQAIYK MVSSVMKMPE  
DESTPEKRTD KIFRQMDTNN DGKLSLEEFI RGAKS DPSIV RLLQCDPSSA SQF

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The HPCAL1 protein solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT 0.2M NaCl and 10% glycerol.

### 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). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

HPCAL1, participates in neuron-specific calcium-binding proteins family found in the retina and brain. HPCAL1 is extremely comparable to human hippocalcin protein and almost equal to the rat and mouse hippocalcin like-1 proteins. HPCAL1 takes part in the calcium-dependent regulation of rhodopsin phosphorylation and can have importance in neuronal signalling in the central nervous system.

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