# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-333aa

**UniProt No.** 014908

NCBI Accession No. NP\_974199

### **Alternative Names**

PDZ domain-containing protein GIPC1, C19orf3, GIPC, GLuT1CBP, Hs.6454, IIP-1, NIP, SEMCAP, SYNECTIIN, SYNECTIN, TIP-2, RGS19IP1, PDZ domain-containing protein GIPC1, Chromosome 19 open reading frame 3, GIPC, IIP 1, TIP 2, GIPC 1

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

38.2 kDa (353aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

#### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 1mM DTT, 0.1M NaCl, and 1mM EDTA

#### **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

GIPC1 is a PDZ domain containing protein that interacts with RGS-GAIP and the viral oncoprotein TAX, which transactivates viral and cellular promoters through interactions with various transcription factors. GIPC specifically localizes to clusters of vesicles near the plasma membrane and participates in G protein-coupled signaling pathway involved in regulating Clathrin-coated vesicular trafficking. GIPC also associates with



membrane bound Semaphorin F (M-SemF), which is involved in neuronal axon growth, and it appears to regulate the subcellular distribution of M-SemF in the brain. Recombinant human GIPC1 protein, fused to at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

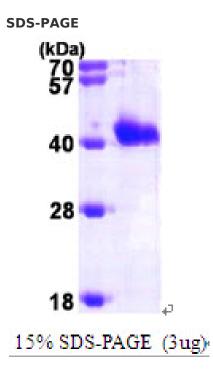
#### **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MPLGLGRRKK APPLVENEEA EPGRGGLGVG EPGPLGGGGG GGPQMGLPPP PPALRPRLVF HTQLAHGSPT GRIEGFTNVK ELYGKIAEAF RLPTAEVMFC TLNTHKVDMD KLLGGQIGLE DFIFAHVKGQ RKEVEVFKSE DALGLTITDN GAGYAFIKRI KEGSVIDHIH LISVGDMIEA INGQSLLGCR HYEVARLLKE LPRGRTFTLK LTEPRKAFDM ISQRSAGGRP GSGPQLGTGR GTLRLRSRGP ATVEDLPSAF EEKAIEKVDD LLESYMGIRD TELAATMVEL GKDKRNPDEL AEALDERLGD FAFPDEFVFD VWGAIGDAKV GRY

#### **General References**

Lee NY., et al. (2008) J Biol Chem. 283(47):32527-33. De Vries L., et al. (1998) Proc Natl Acad Sci u S A. 95(21):12340-5.

## DATA



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