

# Recombinant human GIPC1 protein

Catalog Number: ATGP0613

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-333aa

### UniProt No.

O14908

### 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

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### 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

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### 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

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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

MGSSHHHHHHH SGLVPRGSH MPLGLGRRKK APPLVENEEA EPGRGGLGVG EPGPLGGGGS 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

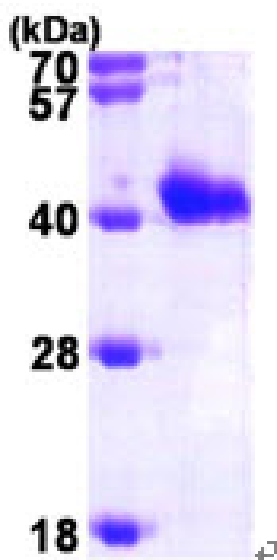
## General References

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

### SDS-PAGE



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

15% SDS-PAGE (3ug)