

# Recombinant human GOPC protein

Catalog Number: ATGP0485

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

278-454aa

### UniProt No.

Q9HD26

### NCBI Accession No.

NP\_001017408

### Alternative Names

Golgi-associated PDZ and coiled-coil motif-containing protein, CAL, dj94G16.2, FIG, GOPC1, PIST, Golgi-associated PDZ and coiled-coil motif-containing protein CFTR associated ligand, dj94G16.2, FIG Fused in glioblastoma, Golgi associated PDZ and coiled coil motif containing, Golgi associated PDZ and coiled coil motif containing protein, GOPC 1, OTTHuMP00000040403, PDZ protein interacting specifically with TC 10, PDZ protein interacting specifically with TC10, PDZ/coiled coil domain binding partner for the rho family GTPase TC 10, PDZ/coiled coil domain binding partner for the rho family GTPase TC10, Protein interacting specifically with Tc 10, Protein interacting specifically with Tc10.

## PRODUCT SPECIFICATION

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### Molecular Weight

21.5 kDa (198aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 90% 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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# Recombinant human GOPC protein

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## Description

GOPC, also known as PIST, is a PDZ domain-containing Golgi protein. This protein functions as a homooligomer that interacts with a variety of proteins and plays a role in intracellular protein trafficking and degradation. Additionally, GOPC is thought to regulate ionic currents via membrane channel modification and may also play a role in autophagy. Chromosomal aberrations in the gene encoding GOPC are found in glioblastoma multiform (GBM), a common and aggressive form of brain tumor, suggesting a role for mutated PIST in carcinogenesis. Recombinant GOPC protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MIRKVLKKE DHEGLGISIT GGKEHGVPI ISEIHPGQPA DRCGGLHVG DAILAVNGVNL  
RDTKHKEAVT ILSQQRGEIE FEVYVAPEV DSDDENVEYE DESGHRYRLY LDELEGGGNP GASCKDTSGE IKVLQGFNKK  
AVTDTHENG D LGTASETPLD DGASKLDDLH TLYHKKSY

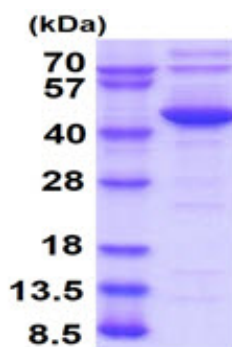
## General References

Cheng J., et al. (2002) *J Biol Chem.* 277(5):3520-9.

Yao R., et al. (2001) *Biochem Biophys Res Commun.* 286(4):771-8.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)