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## Product Data Sheet

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Product Name: GOPC Human  
 Cat. No.: GP23585  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CAL; dj94G16.2; FIG; GOPC1; PIST; Golgi-associated PDZ and coiled-coil motif-containing protein; PDZ protein interacting specifically with TC10; CFTR-associated ligand; Fused in glioblastoma; GOPC.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MIRKVLKKE DHEGLGISIT GGKEHGVPII ISEIHPGQPA DRCGGLHVGD AILAVNGVNL RDTKHKEAVT ILSQQRGEIE FEVYVAPEV DSDDENVEYE DESGHRYRLY LDELEGGGNP GASCKDTSGE IKVLQGFNKK AVTDTHENGD LGTASETPLD DGASKLDDLH TLYHKKSY.		
Formulation	The GOPC protein solution contains 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.		

### Introduction

GOPC is a PDZ domain-containing Golgi protein which binds the extreme C terminus of proteins in a sequence-specific manner. GOPC participates in intracellular protein trafficking and degradation. GOPC regulates CFTR chloride currents and acid-induced ACCN3 currents by modulating cell surface expression of both channels. GOPC regulates the intracellular trafficking of the ADR1B receptor. GOPC takes part in autophagy. GOPC over expression results in CFTR intracellular retention and degradation in the lysosomes.

### 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.

### Background

GOPC Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 198 amino acids (278-454 a.a.) and having a molecular mass of 21.5

**Caution: Product has not been fully validated for medical applications. For research use only.**

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kDa. The GOPC is fused to a 20 amino acid His Tag and purified by conventional chromatography.

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