

GOPC Human

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

Catalog #: PRPS-800

For research use only.

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.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MIRKVLKKE DHEGLGISIT
GGKEHGVPI ISEIHGQPA DRCGGLHVGD AILAVNGVNL RDTKHKEAVT ILSQQRGEIE
FEVVYVAPEV DSDDENVEYE DESGHRYRLY LDELEGGGNP GASCKDTSGE IKVLQGFNKK
AVTDTHENGD LGTASETPLD DGASKLDDLH TLYHKKSY.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The GOPC protein solution contains 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.

Stability:

GOPC although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's 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:

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.

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