

GOPC-ROS1 recombinant protein

GOPC-ROS1 Mutant, Active

CATALOG # AAA73116	HOST Sf9 insect cells using baculovirus	APPLICATIONS Kinase Assay
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PRODUCT SYNONYMS

GOPC-ROS1; GOPC-ROS1 Mutant; Active; GOPC-ROS1 recombinant protein

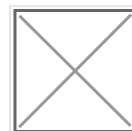
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Sequence Positions	1-419 (GOPC) - 1881-end (ROS1)
Sequence Length	4640
Applicable Applications for GOPC-ROS1 recombinant protein	Kinase Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for GOPC-ROS1 recombinant protein	Description: Recombinant human fusion protein GOPC (1-419)-ROS1 (1881-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: GOPC gene encodes a Golgi protein with a PDZ domain. Mice which are deficient in the GOPC protein have globozoospermia and are infertile. Multiple transcript variants encoding different isoforms of GOPC have been found for this gene and GOPC gene locus is involved in translocations with other loci including c-ros oncogene 1 (ROS1) which result in the formation of the GOPC-ROS1 fusion protein that act as an oncogene. The ros1 gene encodes a proto-oncogenic protein which has been implicated in the pathogenesis of several types of cancer, including lung cancer and gliomas (1). GOPC-ROS1 fusion gene product has been identified in lung cancer (2).
Product Categories/Family for GOPC-ROS1 recombinant protein	Enzymes; Active Kinase Mutants

References	1. Maxwell, M. et al: Overexpression of the ros1 gene in primary human gliomas may contribute to malignant progression. Int J Oncol. 1996 Apr;8 (4):713-8. 2. Suehara Y. et al: Identification of KIF5B-RET and GOPC-ROS1 fusions in lung adenocarcinomas through a comprehensive mRNA-based screen for tyrosine kinase fusions. Clin Cancer Res. 2012 Dec 15;18 (24):6599-608.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	301500638
NCBI GeneID	57120
NCBI Accession #	NM_020399.3
NCBI GenBank Nucleotide #	NM_020399
UniProt Accession #	Q9HD26; Q59FS4; Q969U8; A6NM30
Molecular Weight	145 kDa
NCBI Official Full Name	Homo sapiens golgi associated PDZ and coiled-coil motif containing (GOPC), transcript variant 1, mRNA
NCBI Official Synonym Full Names	golgi associated PDZ and coiled-coil motif containing
NCBI Official Symbol	GOPC
NCBI Official Synonym Symbols	CAL; FIG; PIST; GOPC1; dJ94G16.2
NCBI Protein Information	Golgi-associated PDZ and coiled-coil motif-containing protein
UniProt Protein Name	Golgi-associated PDZ and coiled-coil motif-containing protein
UniProt Gene Name	GOPC
UniProt Synonym Gene Names	CAL; FIG; PIST

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.