

# Recombinant human Rho GDP-dissociation inhibitor 1 protein



Catalog No: #AP71650

Orders: order@signalwayantibody.com

Package Size: #AP71650-1 20ug #AP71650-2 100ug

Support: tech@signalwayantibody.com

## Description

|                       |   |
|-----------------------|---|
| Product Name          | Recombinant human Rho GDP-dissociation inhibitor 1 protein  |
| Brief Description     | Recombinant Protein   |
| Host Species          | E.coli  |
| Purification          | Greater than 90% as determined by SDS-PAGE.   |
| Immunogen Description | Expression Region:2-204aaSequence Info:Full Length  |
| Other Names           | Rho-GDI alpha   |
| Accession No.         | P52565  |
| Uniprot               | P52565  |
| GeneID                | 396;  |
| Calculated MW         | 50.1 kDa  |
| Tag Info              | N-terminal GST-tagged   |
| Target Sequence       | AEQEPTAEQLAQIAAENEDEHSVNYKPPAQKSIQEIQLDKDDESLRKYKEALLGRVAVSADPNVNVVVTG<br>LTLVCSSAPGPLELDTGDLESFKKQSFVLKEGVEYRIKISFRVNRREIVSGMKYIQHTYRKGVKIDKTDYMGVGSY<br>GPRAEEYFLTPVEEAPKGM LARGSYSIKSRFTDDDKTDHLSWEWNLTIKKDWKD   |
| Formulation           | Tris-based buffer50% glycerol   |
| Storage               | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br><br>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |

## Background

Controls Rho proteins homeostasis. Regulates the GDP,GTP exchange reaction of the Rho proteins by inhibiting the dissociation of GDP from th, and the subsequent binding of GTP to th. Retains Rho proteins such as CDC42, RAC1 and RHOA in an inactive cytosolic pool, regulating their stability and protecting th from degradation. Actively involved in the recycling and distribution of activated Rho GTPases in the cell, mediates extraction from mbranes of both inactive and activated molecules due its exceptionally high affinity for prenylated forms. Through the modulation of Rho proteins, may play a role in cell motility regulation. In glioma cells, inhibits cell migration and invasion by mediating the signals of SA5A and PLXNB3 that lead to inactivation of RAC1.

## References

Identification of two human Rho GDP dissociation inhibitor proteins whose overexpression leads to disruption of the actin cytoskeleton.Leffers H., Nielsen M.S., Andersen A.H., Honore B., Madsen P., Vandekerckhove J., Celis J.E.Exp. Cell Res. 209:165-174(1993)Research Topic:Signal Transduction

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Note: This product is for in vitro research use only