

Recombinant human ARHGDIB protein

Catalog Number: ATGP1470

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-201aa

UniProt No.

P52566

NCBI Accession No.

NP_001166

Alternative Names

Rho GDP-dissociation inhibitor 2, D4, GDIA2, GDID4, Ly-GDI, LYGDI, RAP1GN1; RhoGDI2

PRODUCT SPECIFICATION

Molecular Weight

49.4 kDa (428aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

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

Description

Members of the Rho (or ARH) protein family and other Ras-related small GTP-binding proteins are involved in diverse cellular events, including cell signaling, proliferation, cytoskeletal organization, and secretion. The GTP-binding proteins are active only in the GTP-bound state. At least 3 classes of proteins tightly regulate cycling between the GTP-bound and GDP-bound states: GTPase-activating proteins (GAPs), guanine nucleotide-releasing factors (GRFs), and GDP-dissociation inhibitors (GDIs). The GDIs, including ARHGDIB, decrease the rate of GDP dissociation from Ras-like GTPases. Recombinant human ARHGDIB protein, fused to GST-tag at N-terminus, was

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expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPPYYID GDVKLTQSMA IIRYIADKHN
MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD
VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPRGSHMTE KAPEPHVEED
DDDELDSKLN YKPPPQKSLK ELQEMDKDDE SLIKYKKTLL GDGPVVTPDK APNVVVTRLT LVCESAPGPI TMDLTGDLEA
LKKETIVLKE GSEYRVKIH F KVN RDIVSGL KYVQHTYRTG VKVDKATFMV GSYGPRPEEY EFLTPVEEAP KGMLARGTYH
NKSFFTDDDK QDHLSWEWNL SIKKEWTE

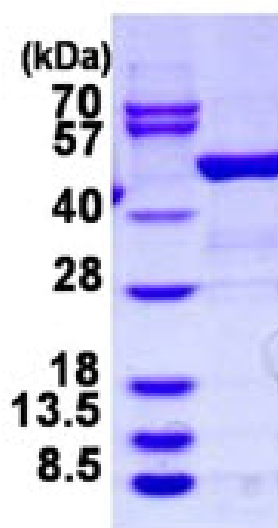
General References

Skalnikova,H. et al. (2011) J. Proteome Res. 10 (2), 404-415

Mehta,P. et al. (2011) PLoS ONE 6 (6), E21175

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)