
Product Data Sheet

Product Name: ARHGDIB Human

Cat. No.: GP22766

Batch No.: 1

Product Data

Purity >98%

Source E.coli.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

Synonyms Rho GDP dissociation inhibitor (GDI) beta; Rho GDI 2; Rho-GDI beta; GDIA2; GDID4; Ly-GDI; RAP1GN1.

Amino Acid Sequence

MSPILGYWKI KGLVQPTRLLEYLEEKYEE HLYERDEGDK WRNKKFELGL
 EFPNLPYYID GDVCLTQSMALIRYIADKHN MLGGCPKERA EISMLEGAVL
 DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH
 PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPOID KYLKSSKYIA
 WPLQGWQATF GGGDHPPKSD LVPRGSHMTE KAPEPHVEED DDELDLTKLN
 YKPPPQKSLK ELQEMDKDDE SLIKYKKTLL GDGPVVTPDK APNVVVTRLT
 LVCESAPGPI TMDLTGDLEA LKKETIVLKE GSEYRVKIHFKVNRDIVSGL
 KYVQHTYRTG VKVDKATFMV GSYGPRPEEY EFLTPVEEAP KGMLARGTYH
 NKSFFTDDDK QDHLSWEWNL SIKKEWTE

Formulation The ARHGDIB solution (1mg/1ml) contains phosphate-buffered Saline (pH 7.4) and 10% glycerol.

Introduction

Members of the Rho (or ARH) protein family and other Ras-related small GTP-binding proteins are involved in various cellular procedures, such as cell cytoskeletal organization, secretion, proliferation, and signaling. The GTPBPs are active only in the GTP-bound state. At least 3 types of proteins firmly regulate cycling between the GTP-bound and GDP-bound states: GDP-dissociation inhibitors (GDIs), GTPase-activating proteins (GAPs) and guanine nucleotide-releasing factors (GRFs). ARHGDIB and the other GDIs lower the level of GDP dissociation from Ras-like GTPases.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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

ARHGDIB Human Recombinant produced in E. coli is a single polypeptide chain containing 428 amino acids (1-201) and having a molecular mass of 49.4kDa. ARHGDIB is fused to a 227 amino acid GST-tag at N-terminus & purified by proprietary chromatographic techniques.

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