

Recombinant Human Rho GDP Dissociation Inhibitor (GDI) Beta

Cat. No. ARHGDIB-1277H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human D4-GDI full length protein expressed in <i>E.coli</i> shows a 54 kDa SDS-PAGE. The D4-GDI is purified by proprietary chromatographic techniques.
Species	Human
Source	<i>E.coli</i>
Description	D4-GDI belongs to the family of Rho-GDIs or GDP-dissociation inhibitors for the Rho/Rac family of small G proteins; consisting of RhoGDI-1, D4 GDI/RhoGDI-2 and RhoGDI-3. It inhibits the release of GDP from the Rho proteins, essential for GTP-loading and activation of GTPase activity. D4-GDI is located in the cytoplasm and is involved in the regulation of the membrane association and dissociation cycle of Rho/Rac proteins. Cells deficient of D4-GDI revert to a normal breast epithelial phenotype characterized by the formation of cysts with a central lumen when grown on Matrigel. D4-GDI reduction is linked to a down-regulation of the cell surface protein β 1-integrin and a loss of cell-matrix adhesion, suggestive of D4-GDI induction of cell invasion by controlling β 1-integrin expression. The expression of β 1-integrin and invasive activities are restored once there's restitution of D4-GDI expression to the levels found in the parental MDA-MB-231 cells. Therefore it is suggested that D4-GDI may play a significant role in the regulation of breast cancer cell invasiveness.
Physical Appearance	Sterile Filtered clear solution.

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Formulation	D4-GDI protein at 0.1mg/ml in 50mM Tris-acetate, pH7.5, 20% glycerol and 1mM EDTA.
Stability	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please prevent freeze-thaw cycles.
Purity	Greater than 90% as determined by SDS-PAGE.
Applications	ELISA, Inhibition Assays, Western Blotting.
Full Length	Full L.

GENE INFORMATION

Gene Name	ARHGDIB Rho GDP dissociation inhibitor (GDI) beta [Homo sapiens]
Synonyms	ARHGDIB; Rho GDP dissociation inhibitor (GDI) beta; D4; GDIA2; GDID4; LYGDI; Ly-GDI; RAP1GN1; RhoGDI2; Rho GDI 2; Rho GDP-dissociation inhibitor 2
Gene ID	397
mRNA Refseq	NM_001175
Protein Refseq	NP_001166
MIM	602843
UniProt ID	P52566
Chromosome Location	12p12.3

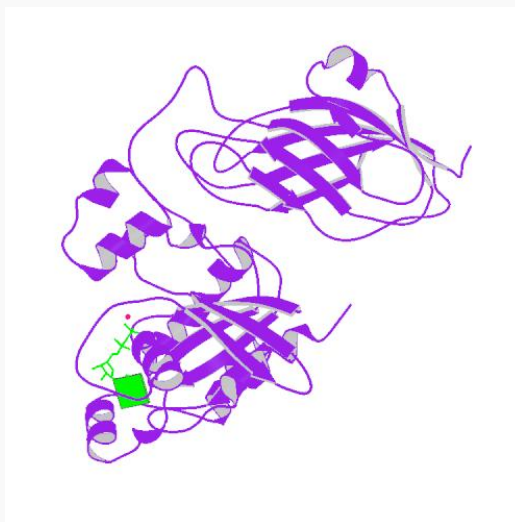
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Pathway	Neurotrophin signaling pathway; Signaling by Rho GTPases
Function	GTPase activator activity; Rho GDP-dissociation inhibitor activity; protein binding

PDB rendering based
on 1ds6.



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