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# Recombinant human DIRAS1 protein

Catalog Number: ATGP0724

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-195aa

#### **UniProt No.**

095057

#### **NCBI Accession No.**

NP 660156.1

### **Alternative Names**

GTP-binding protein Di-Ras1, FLJ42681, GBTS1, RIG, GTP-binding protein Di-Ras1.

# PRODUCT SPECIFICATION

## **Molecular Weight**

24.1 kDa (215aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT, 0.1M NaCl, 1mM EDTA

#### **Purity**

> 95% 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**

DIRAS1 belongs to a distinct branch of the functionally diverse Ras superfamily of monomeric GTPases. Ras proteins function as binary molecular switches that control intracellular signaling networks. Ras-regulated signal pathways control such processes as actin cytoskeletal integrity, proliferation, differentiation, cell adhesion, apoptosis, and cell migration. Ras and ras-related proteins are often deregulated in cancers, leading to increased invasion and metastasis, and decreased apoptosis. DIRAS1 displays low GTPase activity and exists predominantly in the GTP-bound form. Recombinant human DIRAS1 protein, fused to His-tag at N-terminus, was



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

# **Amino acid Sequence**

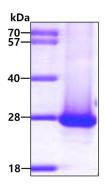
<MGSSHHHHHH SSGLVPRGSH> MPEQSNDYRV VVFGAGGVGK SSLVLRFVKG TFRDTYIPTI EDTYRQVISC DKSVCTLQIT DTTGSHQFPA MQRLSISKGH AFILVFSVTS KQSLEELGPI YKLIVQIKGS VEDIPVMLVG NKCDETQREV DTREAQAVAQ EWKCAFMETS AKMNYNVKEL FQELLTLETR RNMSLNIDGK RSGKQKRTDR VKGKC

#### **General References**

Ellis CA., et al. (2002) Proc Natl Acad Sci u S A. 99(15):9876-81. Kontani K., et al. (2002) J Biol Chem. 277(43):41070-8.

### **DATA**

#### **SDS-PAGE**



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

