

Recombinant human DIRAS1 protein

Catalog Number: ATGP0724

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-195aa

UniProt No.

O95057

NCBI Accession No.

NP_660156.1

Alternative Names

GTP-binding protein Di-Ras1., 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 SSLVLRVKG TFRDTYIPTI EDTYRQVISC
DKSVCTLQIT DTTGSHQFPA MQRLSISKGH AFILVFSVTS KQSLEELGPI YKLIVQIKGS VEDIPVMLVG NKCDDETQREV
DTREAQAVAQ EWKCAFMETS AKMNYNVKEL FQELLTLETR RNMSLNIDGK RSGKQKRTDR VKGKC

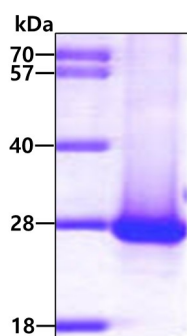
General References

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.