Recombinant human DIRAS1 protein

Catalog Number: ATGP0724

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-195aa

UniProt No.
O95057

NCBI Accession No.
NP_660156

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

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

Amino acid Sequence

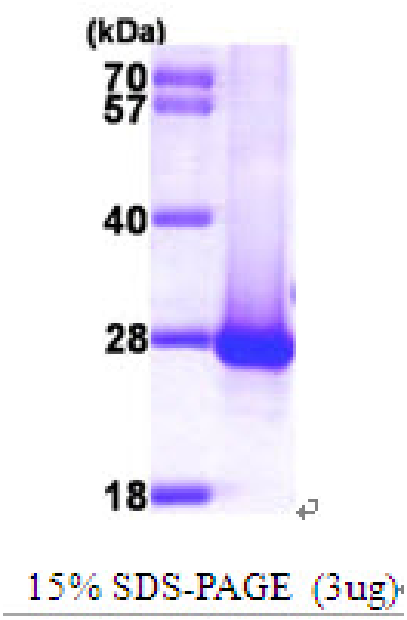
MGSSHHHHHH SSGLVPRGSH MPEQSNDYRV VVFGAGGVGK SSLVLRFVKG TFRDTYIPTI EDTYRQVISC DKSVCTLQIT DTTGSHQFPA MQRLSISKGH AFILVFSVTS KQSLEELGPI YKLIVQIKGS VEDIPVMLVG NKCDETQREV DTREAQAVAQ EWKCAFMETS AKMNYNVKEL FQELLTLETR RNMSLNIDGK RSGKQKRTDR VKGKC

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



15% SDS-PAGE (3ug)

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