

Recombinant Human DIRAS1, His-tagged

Cat. No. DIRAS1-2817H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DIRAS1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 24.1 kDa (215aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
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.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MPEQSNDYRV VVFGAGGVGK SSLVLRVFKG TFRDTYIPTI EDTYRQVISC DKSVC TLQIT DTTGSHQFPA MQRLSISKGH AFILVFSVTS KQSLEELGPI YKLIVQIKGS VEDIPVMLVG NKCDETQREV DTREAQAVAQ EWKCAFMETS AKMNYNVKEL FQELLTLETR RNMSLNIDGK RSGKQKRTDR VKGKC
Purity	> 95% by SDS – PAGE.

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Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol 1mM DTT, 0.1M NaCl, 1mM EDTA.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	DIRAS1 DIRAS family, GTP-binding RAS-like 1 [Homo sapiens]
Synonyms	DIRAS1; DIRAS family, GTP-binding RAS-like 1; RIG; GBTS1; Di-Ras1; FLJ42681; GTP-binding protein Di-Ras1; ras-related inhibitor of cell growth; small GTP-binding tumor suppressor 1; distinct subgroup of the Ras family member 1
Gene ID	148252
mRNA Refseq	NM_145173
Protein Refseq	NP_660156
MIM	607862
UniProt ID	O95057
Chromosome Location	19p13.3
Function	GTP binding; GTPase activity; nucleotide binding

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