9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

DIRAS1 Human

DIRAS family, GTP-binding RAS-like 1 Human Recombinant
RCP0640

Product Overview

Name	DIRAS1 Human

Description

DIRAS family, GTP-binding RAS-like 1 Human Recombinant

Accession (Primary)	O95057

Synonyms

GTP-binding protein Di-Ras1, Distinct subgroup of the Ras family member 1, Ras-related inhibitor of cell growth, Rig, Small GTP-binding tumor suppressor 1, DIRAS1, GBTS1, Di-Ras1, FLJ42681.

Introduction

DIRAS1 is a member of a distinct branch of the functionally diverse Ras superfamily of monomeric GTPases. DIRAS1 demonstrates low GTPase activity and exists mainly in the GTP-bound form. Ras proteins operate as binary molecular switches that control intracellular signaling networks. Ras-regulated signal pathways regulate such processes as actin cytoskeletal integrity, proliferation, differentiation, cell adhesion, apoptosis, and cell migration. Ras and ras-related proteins are frequently deregulated in cancers, leading to increased invasion and metastasis, and decreased apoptosis.

Source

Escherichia Coli.

Physical Appearance

Sterile filtered colorless solution.

Formulation

DIRAS1 Human solution (1mg/ml) containing 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol, 1mM DTT, 0.1M NaCl and 1mM EDTA.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MPEQSNDYRV VVFGAGGVGK SSLVLRFVKG TFRDTYIPTI EDTYRQVISC

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DKSVCTLQIT DTTGSHQFPA MQRLSISKGH AFILVFSVTS KQSLEELGPI YKLIVQIKGS VEDIPVMLVG KCDETQREV DTREAQAVAQ EWKCAFMETS AKMNYNVKEL FQELLTLETR RNMSLNIDGK RSGKQKRTDR KGKC.

Precautions

DIRAS1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O95057)