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

RRAS2 Human

Related RAS Viral (r-ras) Oncogene Homolog 2 Human Recombinant
RCP1931

Product Overview

Name	RRAS2 Human
Description	
Related RAS Viral (r-ras) Oncogene Homolog 2 Human Recombinant	
Accession (Primary)	P62070
Synonyms	
Ras-related protein R-Ras2, Ras-like protein TC21, Teratocarcinoma oncogene, RRAS2, TC21.	
Introduction	
RRAS2 (RAS viral (r-ras) oncogene homolog 2) is a member of the Ras like GTPase family that cycle between GTP-bound active and GDP-bound inactive states at the cytoplasmic face of the plasma membrane. RRAS2 is a plasma membrane-associated GTP-binding protein with GTPase activity. RRAS2 is implicated in the pathogenesis of human cancers. Hence, overexpression of active RRAS2 in EpH4 cells induces tumorigenicity through the phosphoinositide 3-kinase, p38 MAPK, and mTOR pathways, as these cells lose their sensitivity to the normal growth inhibitory role of TGF-beta. RRAS2 might transduce growth inhibitory signals across the cell membrane, exerting its effect via an effector shared with the Ras proteins but in an antagonistic manner. RRAS2 is ubiquitously present in all tissues examined, with the highest levels in the heart, placenta, and skeletal muscle. Moderate levels of RRAS2 are found in the lung and liver and low levels in the brain, kidney, and pancreas. RRAS2 deficiencies are linked to ovarian cancer.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The RRAS2 solution contains 20mM Tris-HCl buffer (pH8.0), 1mM DTT, 10% glycerol and 2mM 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 95.0% as determined by SDS-PAGE.	
Amino acid sequence	

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MGSSHHHHHH SSGLVPRGSH MAAAGWRDGS GQEKYRLVVV GGGGVGKSAL TIQFIQSYFV TDYDPTIEDS YTKQCVIDDR AARLDILDTA GQEEFGAMRE QYMRTGEGFL LVFSVTDRGS FEEIYKFQRQ ILRVKDRDEF PMILIGNKAD LDHQRQVTQE EGQQLARQLK VTYMEASAKI RMNVDQAFHE LVRVIRKFQE QECPPSPEPT RKEKDKKGCH C.

Precautions

RRAS2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P62070)