
Product Data Sheet

Product Name: RRAS2 Human
 Cat. No.: GP24446
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ras-related protein R-Ras2; Ras-like protein TC21; Teratocarcinoma oncogene; RRAS2; TC21.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAAAGWRDGS GQEKYRLVVV GGGVVGKSAL TIQFIQSYFV TDYDPTIEDS YTKQCVIDDR AARLDILDTA GQEFGAMRE QYMRTGEGFL LVFSVTDRGS FEEIYKFQRQ ILRVKDRDEF PMILIGNKAD LDHQRQVTQE EGQLARQLK VTYMEASAKI RMNVDQAFHE LVRVIRKFQE QECPPSPEPT RKEKDKKGCH C.		
Formulation	The RRAS2 solution contains 20mM Tris-HCl buffer (pH8.0), 1mM DTT, 10% glycerol and 2mM EDTA.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

RRAS2 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 221 amino acids (1-201 a.a.) and having a molecular mass of 25.2 kDa. The RRAS2 is purified by proprietary chromatographic techniques.

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