
Product Data Sheet

Product Name: RAC2 Human

Cat. No.: GP24311

Batch No.: 1

Product Data

Purity >98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms p21-Rac2; Small G protein; GX; RAC2; HSPC022; EN-7.

Amino Acid Sequence

MSPILGYWKI KGLVQPTRLLEYLEEKYEE HLYERDEGDK WRNKKFELGLEFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPOID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPRGSHMQA IKCVVVG DGA VGKTCLLISY TTNAFPGEYI PTVFDNYSAN VMVDSKPVNL GLWDTAGQED YDRLRPLSYP QTDVFLICFS LVSPASYENV RAKWFPEVRH HCPSTPIILV GTKLDLRDDK DTIEKLKEKK LAPITYPQGL ALAKEIDSVK YLECSALTQR GLKTVFDEAI RAVLCPQPTR QQKRACSL.

Formulation The RAC2 protein solution (1mg/ml) contains 1x PBS pH-7.4.

Introduction

RAC2 is a small signaling G protein/GTPase which is part of the RAS superfamily of small GTP-binding proteins which regulate cell growth, actin cytoskeletal organization, cell proliferation, survival, cell cycle progression, gene transcription regulation and the activation of protein kinases. RAC2 cycles between an active gtp-bound and inactive gdp-bound state. In active state, RAC2 binds to a variety of effector proteins to regulate cellular responses, such as secretory processes, phagocytosis of apoptotic cells and epithelial cell polarization. RAC2 is involved in the regulation of the nadph oxidase.

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.

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

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Background

Recombinant RAC2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 419 amino acids and having a molecular mass of 47 kDa. RAC2 is fused to GST and purified by conventional chromatography techniques.

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