
Product Data Sheet

Product Name: RAC2 Human, 189a.a

Cat. No.: GP24312

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ras-related C3 botulinum toxin substrate 2; p21-Rac2; Small G protein; GX; RAC2; HSPC022; EN-7.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MQAIKCVVVG DGAVGKTCLL ISYTTNAFPG EYIPTVFDNY SANVMVDSKP VNLGLWDTAG QEDYDRLRPL SYPQTDVFLI CFSLVSPASY ENVRAKWFPE VRHHCPTPI ILVGTKLDLR DDKDTIEKLN EKKLAPITYP QGLALAKEID SVKYLECSAL TQRGLKTVFD EAIRAVLCPQ PTRQQKRAC.		
Formulation	The RAC2 solution contains 20mM Tris-HCl buffer (pH 8.0), 20% Glycerol, 2mM EDTA, 2mM DTT and 0.1M NaCl.		

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.

Background

RAC2 Human Recombinant fused with 20 amino acid His tag at N-terminus produced in

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

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E.Coli is a single, non-glycosylated, polypeptide chain containing 209 amino acids (1-189 a.a.) and having a molecular mass of 23.3kDa. The RAC2 is purified by proprietary chromatographic techniques.

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