Product Data Sheet

Product Name:	RAC1 Human, His
Cat. No.:	GP24310
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	P21-RAC1; RAC-1; RAC1; RAS-like protein TC25; MIG5; Cell-migration-inducing gene 5 protein;Ras-related C3 botulinum toxin substrate 1; rho family small GTP binding protein Rac1; TC-25; MGC111543.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MQAIKCVVVG DGAVGKTCLL ISYTTNAFPG EYIPTVFDNY SANVMVDGKP VNLGLWDTAG QEDYDRLRPLSYPQTDVFLI CFSLVSPASF ENVRAKWYPE VRHHCPNTPI ILVGTKLDLR DDKDTIEKLK EKKLTPITYP QGLAMAKEIG AVKYLECSALTQRGLKTVFD EAIRAVLCPP PVKKRKRKCL LL.		
Formulation	The RAC1 His Tag protein solution contains 20mM Tris-HCl pH7.5, 1mM EDTA, 10% glycerol and 1mM DTT.		

Introduction

RAC1 is a GTPase which belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. RAC-1 regulates the actin cytoskeleton but also other cellular processes. RAC1 have been shown to be involved in the regulation of cell-cell adhesion.

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).Please prevent freeze-thaw cycles.

Background

Ras-Related C3 Botulinum Toxin substrate 1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 212 amino acids (1-192 a.a.) and

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having a molecular mass of 23.6 kDa. RAC1 contains a 20 amino acid His Tag at N-terminus and is purified by proprietary chromatographic techniques.

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