



## Product Datasheet

<b>Product Name</b>	Ras-Related C3 Botulinum Toxin substrate 1 Human Recombinant
<b>Cata No</b>	CB501183
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	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.

### Description

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.

Ras-Related C3 Botulinum Toxin substrate 1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 192 amino acids and having a molecular mass of 21.4 kDa.

### Physical Appearance

Sterile Filtered colorless solution.

### Purity

Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

### Formulation

The protein solution contains 20mM Tris-HCl pH7.5, 2mM EDTA and 1mM DTT.

### Stability

RAC1 although stable 4°C for 4 weeks, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

### Sequence

MQAIKCVVVG DGAVGKTCLLISYTTNAFPGEYIPT  
VFDNYSANVMVDGKPVN  
LGLWDTAQEDYDRLRPLSYPQTDVFLICFSLVSP  
ASFENVRAKWYPEVRH  
HCPNTPILVGTKLDLRDDKDTIEKLKEKLLTPITYP  
QGLAMAKEIGAVKYLE  
CSALTQRGLKTVFDEAIRAVLCP  
PPVKKRKRKCLLL