

## Recombinant Human RGS21

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**CATALOG NUMBER:** STA-787                      **STORAGE:** -80°C; avoid freeze/thaw cycles

**QUANTITY:** 20 µg/vial in Tris-HCl, pH 8.0 with 0.1 M NaCl, 1 mM DTT and 30% glycerol

**SHELF LIFE:** 1 year from date of receipt under proper storage conditions; for longer term storage add 0.1% BSA

### **Background**

Regulators of G-Protein Signaling (RGS) are a family of proteins involved in the downregulation of GPCR signaling pathways. RGS proteins inhibit signaling activity by increasing the GTPase activity of the alpha subunits of G-proteins, causing GTP hydrolysis to the inactive GDP form.

### **Purity and Activity**

Cell Biolabs' rRGS21 is expressed and purified from *E. coli* as a recombinant protein with purity >90% by SDS-PAGE. It has an approximate MW of 20.2 kDa including a His-tag at the N-terminus.

### **Sequence**

MGSSHHHHHSSGLVPRGSHMGSHMPVKCCFYRSPTAETMTWSENMDTLLANQAGLDAFRIFL  
KSEFSEENVEFWLACEDFKKTKNADKIASKAKMIYSEFIEADAPKEINIDFGTRDLISKNIAEPTLK  
CFDEAQKLIYCLMAKDSFPRFLKSEIYKKLVNSQQVPNHKKWLPFL

### **References**

1. Watson N. et al. (1996) *Nature* **383**: 172-175.
2. DeVries L. et al. (2000) *Annu. Rev. Pharmacol. Toxicol.* **40**: 235-271.
3. Dohlman H.G. and Chasse, S.A. (2003) *Assay Drug Dev. Technol.* **1**: 357-364.

### **Warranty**

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