# Recombinant human RGS4 protein

Catalog Number: ATGP1160

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-205aa

**UniProt No.**
P49798

**NCBI Accession No.**
NP_005604

**Alternative Names**
Regulator of G-protein signaling 4, DKFZp761F1924, MGC2124, MGC60244, RGP4, SCZD9

## PRODUCT SPECIFICATION

**Molecular Weight**
25.4 kDa (225aa) confirmed by MALDI-TOF

**Concentration**
1mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 10% glycerol, 200mM NaCl

**Purity**
> 90% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**
RGS4 (regulator of G protein signaling 4) is a protein which regulates G protein signaling. Regulator of G protein signaling (RGS) family members are regulatory molecules that act as GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. Heterotrimeric G proteins function to relay information from cell surface receptors to intracellular effectors. Recombinant human RGS4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

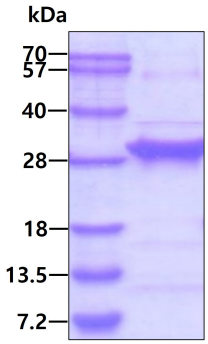
<MGSSHHHHHH SSGLVPRGSH> MCKGLAGLPA SCLRSAKDMK HRLGFLLQKS DSCEHNSSHN KKDKVVICQR VSQEEVKKWA ESLENLISHE CGLAAFKAFL KSEYSEENID FWISCEEYKK IKSPSKLSPK AKKIYNEFIS VQATKEVNLD SCTREETSRN MLEPTITCFD EAQKKIFNLM EKDSYRRFLK SRFYLDLVNP SSCGAEKQKG AKSSADCASL VPQCA

### General References

Chowdari K.V., et al. (2002) Hum. Mol. Genet. 11:1373-1380
Tu Y., et al (1999) J. Biol. Chem. 274:38260-38267

## DATA

### SDS-PAGE




3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.