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# Recombinant human RGS17 protein

Catalog Number: ATGP1200

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-210aa

#### **UniProt No.**

O9UGC6

#### **NCBI Accession No.**

NP 036551

## **Alternative Names**

Regulator of G-protein signaling 17, hRGS17, RGS-17, RGSZ2

# PRODUCT SPECIFICATION

## **Molecular Weight**

26.5 kDa (230aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl,1mM DTT

#### **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**

RGS17, also known as regulator of G-protein signaling 17, attenuates the signaling activity of G-proteins by binding to activated, GTP-bound G alpha subunits and acting as a GTPase activating protein (GAP), increasing the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal. It plays an important role in termination of signalling by mu opioid receptors and development of tolerance to opioid analgesic drugs. Recombinant human RGS17 protein, fused to His-tag at N-terminus, was expressed in E. coli



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and purified by using conventional chromatography.

# **Amino acid Sequence**

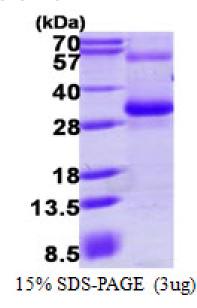
MGSSHHHHHH SSGLVPRGSH MRKRQQSQNE GTPAVSQAPG NQRPNNTCCF CWCCCCSCSC LTVRNEERGE NAGRPTHTTK MESIQVLEEC QNPTAEEVLS WSQNFDKMMK APAGRNLFRE FLRTEYSEEN LLFWLACEDL KKEQNKKVIE EKARMIYEDY ISILSPKEVS LDSRVREVIN RNLLDPNPHM YEDAQLQIYT LMHRDSFPRF LNSQIYKSFV ESTAGSSSES

#### **General References**

Sierra D.A. et al. (2002) Genomics 79: 177-185. Mao H. et al. (2004) J. Biol. Chem. 279: 26314-26322.

# **DATA**

#### **SDS-PAGE**



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

