

Recombinant human RGS5 protein

Catalog Number: ATGP1170

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-181aa

UniProt No.

O15539

NCBI Accession No.

NP_003608

Alternative Names

Regulator of G-protein signaling 5, MST092, MST106, MST129, MSTP032, MSTP092, MSTP106, MSTP129

PRODUCT SPECIFICATION

Molecular Weight

23.5 kDa (205aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% 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

RGS5, also known as regulator of G-protein signaling 5, binds directly to activated G alpha subunits and act as GTPase-activating proteins (GAPs) to attenuate and/or modulate hormone and neurotransmitter receptor-initiated signaling by both G alpha-GTP and G beta gamma. Vascular endothelial cells express the RGS protein RGS5, where it correlates with capillary morphogenesis, thus rendering it a candidate gene involved in capillary growth, angiogenesis, and also potentially the pathophysiology of stroke. Recombinant human RGS5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Recombinant human RGS5 protein

Catalog Number: ATGP1170

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MCKGLA ALPHSCLERA KEIKIKLGIL LQKPDSVGD L VIPYNEKPEK PAKTQKTSLD
EALQWRDSDL KLLQNNYGLA SFKSFLKSEF SEENLEFWIA CEDYKIKSP AKMAEKAKQI YEEFIQTEAP KEVNIDHFTK
DITMKNLVEP SLSSFDMAQK RIHALMEKDS LPRFVRSEFY QELIK

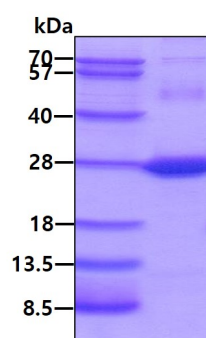
General References

Hepler J.R. et al. (1999) Trends Pharmacol. Sci. 20: 376-382.

Wieland T. et al. (2003) Pharmacol. Ther. 97: 95-115.

DATA

SDS-PAGE



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