

AR50449PU-S**Human RGS14 (1-566, His-tag) - Purified**

Alternate names:	Regulator of G-protein signaling 14
Quantity:	20 µg
Concentration:	0.5mg/ml (determined by Bradford assay)
Background:	RGS14 (Regulator of G-protein signaling 14) belongs to regulator of G protein signalling family. This protein contains one RGS domain, two Raf-like Ras-binding domains (RBDs), and one GoLoco motif. RGS14 is highly enriched in CA2 pyramidal neurons and plays a role in suppression of both synaptic plasticity at these synapses and hippocampal-based learning and memory. RGS14 is a scaffolding protein that integrates G protein and H-Ras/ERK/MAP kinase signaling pathways, thereby making it well positioned to suppress plasticity in CA2 neurons.
Uniprot ID:	O43566
NCBI:	NP_006471
GeneID:	10636
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >80% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer, pH7.5, 10% glycerol, 1mM DTT, 200mM NaCl
Description:	Recombinant human RGS14 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHHH SGLVPRGSH MPGKPKHLGV PNGRMVLAVS DGELSSTTGP QGQGEGRGSS LSIHSLPSGP SSPFPTEEQP VASWALSFER LLQDPLGLAY FTEFLKKEFS AENVTFWKAC ERFQQIPASD TQQLAQEARN IYQEFLLSSQA LSPVNIDRQA WLGEVLAEP RPD MFRAQQL QIFNLMKFDS YARFVKSPLY RECLLAEAEAG RPLREPGSSR LGSPDATTRK PKLKPGKSLP LGVEELGQLP PVEGPGGRPL RKSFRRELGG TANAAALRRES QGSLNSSASL DLGFLAFVSS KSESHRKS LG STEGESESRP GKYCCVYLPD GTASLALARP GLTIRDMLAG ICEKRGLSLP DIKVYLVGNE QALVLDQDCT VLADQEVRL E NRITFELELT ALERVVRISA KPTKRLQEAL QPILEKHGSL PLEVVLHRPG EKQPLDLGKL VSSVAAQRLV LDTLPGVKIS KARDKSPCRS QGCPPTQDK ATHPPASPS SLVKVPSSAT GKRQTCDIEG LVELLN RVQS SGAHDQRGLL RKEDLVLP EF LQLPAQG PSS EETPPQTKSA AQP IGGSLNS TTDSAL Molecular weight: 63.6 kDa (586aa)
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Lee SE, et al. (2010) Proc Natl Acad Sci U S A. 107(39):16994-8. Martin-McCaffrey L., et al. (2005) Cell Cycle 4:953-960

Pictures:

