

32-4643: Recombinant Human Regulator of G-Protein Signaling 14

Alternative Name : Regulator of G-protein signaling 14,RGS14.

Description

Source : Escherichia Coli. RGS14 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 586 amino acids (1-566 a.a) and having a molecular mass of 63.6kDa. RGS14 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Regulator of G-protein signaling 14 (RGS14) is a member of the regulator of G protein signaling family. RGS14 contains one RGS domain, 2 Raf-like Ras-binding domains (RBDs) and one GoLoco motif. RGS14 reduces the signaling activity of G-proteins by binding, via its GoLoco domain, to specific types of activated, GTP-bound G alpha subunits. RGS14 is a scaffolding protein which integrates G protein and H-Ras/ERK/MAP kinase signaling pathways, thus making it suitably positioned to repress plasticity in CA2 neurons. Since RGS14 is highly enriched in CA2 pyramidal neurons, it has a role in inhibition of both synaptic plasticity at these synapses and hippocampal-based learning and memory.

Product Info

Amount :	10 µg
Purification :	Greater than 80% as determined by SDS-PAGE.
Content :	RGS14 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer, pH7.5, 10% glycerol, 1mM DTT and 200mM NaCl.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSVLVPRGSH MPGKPKHLGV PNGRMVLAVS DGELSSTTGP QQGEGRGSS LSIHSPLPSGP SSPFPTEEQP VASWALSFER LLQDPLGLAY FTEFLKKEFS AENVTFWKAC ERFQQIPASD TQQLAQEARN IYQEFLLSSQA LSPVNIDRQA WLGEVLAEP RPD MFRAQQL QIFNLMKFDS YARFVKSPY RECLLAEAE RPLREPGSSR LGSPDATRKK PKLKP GKSLP LGVEELGQLP PVEGPGGRPL RKSFRRELGG TANAALRRES QGSLNSSASL DLGFLAFVSS KSESHRKS LG STEGESESRP GKYCCVYLPD GTASLALARP GLTIRDMLAG ICEKRGLSLPDIKVYLVGNE QALVLDQDCT VLADQEVRL E NRITFELELT ALERVVRISA KPTKRLQEAL QPILEKHGLS PLEVVLHRPG EKQPLDLGKL VSSVAAQRLV LDTLPGVKIS KARDKSPCRS QGCPPRTQDK ATHPPPASPS SLVKVPSSAT GKRQTCDIEG LVELLNVRQS SGAHDQRGLLRKEDLVLP EF LQLPAQGPSS EETPPQTKSA AQPIGGS LNS TTDSAL.

