9051 Mira Mesa Blvd, #910094
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RGS14 Human

Regulator of G-Protein Signaling 14 Human Recombinant
RCP1856

Product Overview

Name	RGS14 Human
Description	
Regulator of G-Protein Signaling 14 Human Recombinant	
Accession (Primary)	O43566
Synonyms	
Regulator of G-protein signaling 14, RGS14.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
RGS14 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer, pH7.5, 10% glycerol, 1mM DTT and 200mM NaCl.	
Stability	
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.	
Purity	
Greater than 80% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MPGKPKHLGV PNGRMVLAVS DGELSSTTGP QGQGEGRGSS LSIHSLPSGP	

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SSPFPTEEQP VASWALSFER LLQDPLGLAY FTEFLKKEFS AENVTFWKAC ERFQQIPASD TQQLAQEARN IYQEFLSSQA LSPVNIDRQA WLGEEVLAEP RPDMFRAQQL QIFNLMKFDS YARFVKSPLY RECLLAEAEG RPLREPGSSR LGSPDATRKK PKLKPGKSLP LGVEELGQLP PVEGPGGRPL RKSFRRELGG TANAALRRES QGSLNSSASL DLGFLAFVSS KSESHRKSLG STEGESESRP GKYCCVYLPD GTASLALARP GLTIRDMLAG ICEKRGLSLP DIKVYLVGNE QALVLDQDCT VLADQEVRLE NRITFELELT ALERVVRISA KPTKRLQEAL QPILEKHGLS PLEVVLHRPG EKQPLDLGKL VSSVAAQRLV LDTLPGVKIS KARDKSPCRS QGCPPRTQDK ATHPPPASPS SLVKVPSSAT GKRQTCDIEG LVELLNRVQS SGAHDQRGLL RKEDLVLPEF LQLPAQGPSS EETPPQTKSA AQPIGGSLNS TTDSAL.

Precautions

RGS14 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O43566)