
Product Data Sheet

Product Name: RGS14 Human
 Cat. No.: GP24375
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Regulator of G-protein signaling 14; RGS14.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MPGKPKHLGV PNGRMVLAVS DGELSSTTGP QGQGEGRGSS LSIHSLPSGP SSPFPTTEEQP VASWALSFER LLQDPLGLAY FTEFLKKEFS AENVTFWKAC ERFQQIPASD TQQLAQEARN IYQEFLSSQA LSPVNIDRQA WLGEEVLAEP RPD MFRAQQL QIFNLMKFDS YARFVKSPLY RECLLAEAEGRPLREPGSSR LGSPDATRKK PKLKPGKSLP LGVEELGQLP PVEGPGGRPL RKSFRRELGG TANAALRRES QGSLNSSASL DLGFLAFVSS KSESHRKS LG STEGESESRP GKYCCVYLPD GTASLALARP GLTIRDMLAG ICEKRGLSLPDIKVYLVGNE QALVLDQDCT VLADQEVRLR NRITFELELT ALERVVRISA KPTKRLQEAL QPILEKHGLS PLEVVLHRPG EKQPLDLGKL VSSVAAQRLV LDTLPGVKIS KARDKSPCRS QGCPRTQDK ATHPPPASPS SLVKVPSSAT GKRQTCDIEG LVELLN RVQS SGAHDQRGLLRKEDLVLP EF LQLPAQGPSS EETPPQTKSA AQPIGGSLNS TTDSAL.		
Formulation	RGS14 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer, pH7.5, 10% glycerol, 1mM DTT and 200mM NaCl.		

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

Caution: Product has not been fully validated for medical applications. For research use only.

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and memory.

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.

Background

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.

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