



Recombinant Rat Regulator of G-protein signaling 14 (Rgs14)

Product Code	CSB-MP019646RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O08773
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	MPGKPKHLGV PNGRMVLAVS DGELTSTSGS QAQGEGRGSS LSIHSLPSGP SSPFSTDEQP VASWAQSFER LLQDPRGLAY FTEFLKKEFS AENVTFWQAC ERFQQIPASD TKQLAQEAHN IYHEFLSSQA LSPVNIDRQA WLSEEVLAQP RPDMFRAQQL QIFNLMKFDS YARFVKSPLY QECLLAEAEG RPLREPGSSH LGSPDTARKK PKLKPGKSLP LGVEELGQLP LAEGRPLRKS FRREMPGGAV NSALRRESQG SLNSSASLDL GFLAFVSSKS ESHRKSLSGSG EGESES RPGK YCCVYLPDGT ASLALARPGL TIRDMLAGIC EKRGSLPDI KVYLVGKEQK ALVLDQDCTV LADQEVRLN RITFQLELVG LERVVRISAK PTKRLQEALQ PILAKHGLSL DQVVLHRPGE KQLVDLENLV SSVASQTLVL DTLPDAKTRE ASSIPPCRSQ GCLPRTQTKD SHLPPLSSSL SVEDASGSTG KRQTCDIEGL VELLNRVQSS GAHDQRGLLR KEDLVLPEFL QLPSQRPGSQ EAPP
Source	Mammalian cell
Target Names	Rgs14
Protein Names	Recommended name: Regulator of G-protein signaling 14 Short name= RGS14
Expression Region	1-544
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This gene encodes a member of the regulator of G-protein signaling family. This protein contains one RGS domain, two Raf-like Ras-binding domains (RBDs), and one GoLoco domain. The protein attenuates the signaling activity of G-proteins by binding, through its GoLoco domain, to specific types of activated, GTP-bound G alpha subunits. Acting as a GTPase activating protein (GAP), the protein increases the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a



concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.