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32-4641: Recombinant Human Regulator of G-Protein Signaling 1

Alternative Name : Regulator of G-protein signaling 1,RGS1,B-cell activation protein BL34,Early response protein 1R20,1R20,BL34,IER1,IR20.

Description

Source : Escherichia Coli. RGS1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 233 amino acids (1-209 a.a) and having a molecular mass of 26kDa.RGS1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. RGS1 belongs to the regulator of G-protein signaling family. The RGS1 protein is situated on the cytosolic side of the plasma membrane and contains a conserved, 120 amino acid motif termed the RGS domain. RGS1 diminish s the signaling activity of G-proteins by binding to activated, GTP-bound G alpha subunits and performing as a GTPase activating protein (GAP), boosting the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, creating inactive G-protein heterotrimers, thus terminating the signal.

Product Info

Amount :	20 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	RGS1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.
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 SSGLVPRGSH MGSHMRAAAI STPKLDKMPG MFFSANPKEL KGTTHSLLDD KMQKRRPKTF GMDMKAYLRS MIPHLESGMK SSKSKDVLSA AEVMQWSQSL EKLLANQTGQ NVFGSFLKSE FSEENIEFWL ACEDYKKTES DLLPCKAEEI YKAFVHSDAA KQINIDFRTR ESTAKKIKAP TPTCFDEAQK VIYTLMEKDS YPRFLKSDIY LNLLNDLQAN SLK.