

32-4645: Recombinant Human Regulator of G-Protein Signaling 17

Alternative Name : Regulator of G-protein signaling 17,RGS-17,RGSZ2,hRGS17.

Description

Source : E.coli. RGS17 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 230 amino acids (1-210) and having a molecular mass of 26.5 kDa. The RGS17 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. RGS17 weakens the signaling activity of G-proteins by binding to activated GTP-bound G alpha subunits and performing as a GTPase activating protein (GAP), increasing 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, which terminates the signal. RGS17 has a vital part in ending the signaling by mu opioid receptors and development of tolerance to opioid analgesic drugs.

Product Info

Amount :	25 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	The RGS17 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 10% glycerol.
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 MRKRQSQNE GTPAVSQAPG NQRPNTCCF CWCCCCSCSC LTVRNEERGE NAGRPTHHTK MESIQVLEEC QNPTAEEVLS WSQNFDMKMK APAGRNLFRE FLRTEYSEEN LLFWLACEDL KKEQNKKVIE EKARMIYEDY ISILSPKEVS LDSRVREVIN RNLLDPNPHM YEDAQLQIYT LMHRDSFPRF LNSQIYKSFV ESTAGSSSES.

