

## 32-3898: GNAI3 Recombinant Protein

**Alternative Name :** Guanine nucleotide binding protein (G protein) alpha inhibiting activity polypeptide 3,G(i) alpha-3,87U6.

### Description

Source : E.coli. GNAI3 Human Recombinant produced in E. coli is a single polypeptide chain containing 377 amino acids (1-354) and having a molecular mass of 43.0kDa. GNAI3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. GNAI3 is a member of the G-alpha family and G (i/o/t/z) subfamily which act as modulators or transducers in several transmembrane signaling systems. G(k) is the stimulatory G protein of receptor-regulated K<sup>+</sup> channels. The active GTP-bound form inhibits the connotation of RGS14 with centrosomes and is essential for the translocation of RGS14 from the cytoplasm to the plasma membrane. GNAI3 takes part in cell division and is known to cooperate with RIC8A, S1PR1, RGS5, RGS10, RGS12, RGS14, RGS16, RGS18, and RGS19.

### Product Info

**Amount :** 10 µg

**Purification :** Greater than 90% as determined by SDS-PAGE.

**Content :** The GNAI3 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 2mM DTT and 20% 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 :** MGSSHHHHH SSGLVPRGSH MGSMGCTLSA EDKAAVERSK MIDRNLREDG EKAAKEVKLL  
LLGAGESGKS TIVKQMKIHH EDGYSEDECK QYKVVVYSNT IQSIIAIRA MGRKIDFGE AARADDARQL  
FVLGSAEEG VMTPELAGVI KRLWRDGGVQ ACFSRSREYQ LNDASYYLN DLDRISQSNY IPTQQDVLRT  
RVKTTGIVET HFTFKDLYFK MFDVGGQRSE RKKWIHCFEG VTAIFCVAL SDYDLVLAED EEMNRMHESM  
KLFD SICNNK WFTETSILF LNKKDLFEK IKRSPLTICY PEYTGSN TYE EAAAYIQ CQF EDLNR RKDTK  
EIYTHFTCAT DTKNVQFVFD AVTDVIKNN LKECGLY

