

GNAI3, 1-354aa, Human, His tag, E.coli

Cat.NO.: TP02286

3th Edition

Synonyms:Guanine nucleotide-binding protein G(k) subunit alpha, 87U6.

Description:GNAI3 belongs to the G-alpha family and G (i/o/t/z) subfamily. Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. G(k) is the stimulatory G protein of receptor-regulated K⁺ channels. The active GTP-bound form prevents the association of RGS14 with centrosomes and is required for the translocation of RGS14 from the cytoplasm to the plasma membrane.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 100mM NaCl

Molecular Weight:43.0kDa (377aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSMGCTLSAEDKAAVERSKMIDRNLREDGEKAAKEVKLLLLGAGESGKSTIVKQ
MKIIHEDGYSEDECKQYKVVVYSNTIQSIHAIIRAMGRLKIDFGAARADDARQLFVLGSAEEGVMTPELAGVIKRLW
RDGGVQACFSRSREYQLNDSASYLNDLDRISQSNYIPTQQDVLRTVRVKTGIVETHFTFKDLYFKMFDVGGQRSE
RKKWIHCFEGVTAIIFCVALS DYDLVLAEDEEMNRMHESMKLFDSICNNKWFTETSIILFLNKKDLFEEDIKRSPLTICY
PEYTGSNITYEEAAAYIQCFEDLNRRKDTKEIYTHFTCATDTKNVQFVFDVTDVVIKNNLKECGLY

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.