

**GNAI1, 1-354aa, Human, His tag, E.coli**

**Cat.NO.: TP02284**

3th Edition

**Synonyms:**Guanine nucleotide-binding protein G(i) subunit alpha, Gi.

**Description:**GNAI1, also known as guanine nucleotide-binding protein G(i) subunit alpha, functions to relay information from cell surface receptors to intracellular effectors. Also this protein functions to open atrial potassium channels. Recombinant human GNAI1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol

**Molecular Weight:**42.7 kDa(377aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSMGCTLSAEDKAAVERSKMIDRNLREDGEKAAREVKLLLLGAGESGKSTIVK  
QMKIIHEAGYSEEECKQYKAVVYSNTIQSIIAIRAMGRLLKIDFGDSARADDARQLFVLGAAEEGFMTAELAGVIKRL  
WKDSGVQACFNRSREYQLNDSAAYYLNDLDRIAQPNYIPTQQDVLRTVKTGTGIVETHFTFKDLHFKMFDVGGQRS  
ERKKWIHCFEGVTAIIFCVALSDYDLVLAEDEEMNRMHESMKLFDSICNNKWFTDTSIILFLNKKDLFEKIKKSPLTIC  
YPEYAGSNTYEEAAAYIQCFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDAVTDVVIKNNLKDGLF

**Purity:**> 95% by HPLC

**Concentration:**1.0 mg/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.