

## Product datasheet for **TP305289M**

### G protein alpha inhibitor 1 (GNAI1) (NM\_002069) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1 (GNAI1), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC205289 representing NM\_002069  
**Red**=Cloning site **Green**=Tags(s)

MGCTLSAEDKAAVERSKMIDRNLRDGEKAAREVKLLLLGAGESGKSTIVKQMKIIHEAGYSEEECKQYK  
AVVYSNTIQSIIAIRAMGRLKIDFGDSARADDARQLFVLGAAEEGFMTAELAGVIKRLWKDSGVQACF  
NRSREYQLNDSAAYLNDLDRIAQPNYIPTQQDVLTRVKTGIVETHFTFKDLHFKMFDVGGQRSERKK  
WIHCFEGVTAIFCVALS DYDLVLAEDEEMNRMHESMKLFDSICNNKWFTDTSIILFLNKKDLFEEKIKK  
SPLTICYPEYAGSNTYEEAAAYIQCFEDLNKRKDTKEIYTHFTCATDTKNVQVFVDAVTDVIKNNLKD  
CGLF

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 40.2 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_002060](#)



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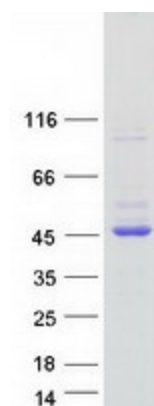
Locus ID: 2770  
UniProt ID: [P63096](#)  
RefSeq Size: 3342  
Cytogenetics: 7q21.11  
RefSeq ORF: 1062  
Synonyms: Gi

**Summary:** Guanine nucleotide binding proteins are heterotrimeric signal-transducing molecules consisting of alpha, beta, and gamma subunits. The alpha subunit binds guanine nucleotide, can hydrolyze GTP, and can interact with other proteins. The protein encoded by this gene represents the alpha subunit of an inhibitory complex. The encoded protein is part of a complex that responds to beta-adrenergic signals by inhibiting adenylate cyclase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

**Protein Families:** Druggable Genome

**Protein Pathways:** Axon guidance, Chemokine signaling pathway, Gap junction, Leukocyte transendothelial migration, Long-term depression, Melanogenesis, Progesterone-mediated oocyte maturation, Tight junction

### Product images:



Coomassie blue staining of purified GNAI1 protein (Cat# [TP305289]). The protein was produced from HEK293T cells transfected with GNAI1 cDNA clone (Cat# [RC205289]) using MegaTran 2.0 (Cat# [TT210002]).