

## Product datasheet

# Recombinant human GNAI2 protein (Active) ab268600

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### Description

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| <b>Product name</b>                    | Recombinant human GNAI2 protein (Active)  |
| <b>Biological activity</b>             | The specific activity of GNAI2 was determined to be 53 nmol/min/mg in a GTPase-Glo assay using GNAI2 substrate.   |
| <b>Purity</b>                          | > 80 % SDS-PAGE.  |
| <b>Expression system</b>               | Escherichia coli  |
| <b>Accession</b>                       | <b><u>P04899</u></b>  |
| <b>Protein length</b>                  | Full length protein   |
| <b>Animal free</b>                     | No  |
| <b>Nature</b>                          | Recombinant   |
| <b>Species</b>                         | Human   |
| <b>Sequence</b>                        | GCTVSAEDKAAAERSKMIDKNLREDGEKAAAREVKLLLLG<br>AGESGKSTIVK<br>QMKIIHEDGYSEEECRQYRAVVYSNTIQSIMAVKAMGNLQI<br>DFADPSRA<br>DDARQLFALSCTAEEQGVLPPDLLSGVIRRLWADHGVQAC<br>FGRSREYQLND<br>SAAYLNDLERIAQSDYIPTQQDVLRTVKTGIVETHFTFK<br>DLHFKMFD<br>VGGQRSERKKWIHCFEGVTAIIFCVALSAYDLVLAEDEEM<br>NRMHESMKLF<br>DSICNNKWFTDTSIILFLNKKDLFEEKITHSPLTICFPEYTGA<br>NKYDEAA<br>SYIQSKFEDLNKRKDTKEYTHFTCATDTKNVQVFVDAVTD<br>VIKNNLKD CGLF |
| <b>Molecular weight information</b>    | SDS-PAGE molecular weight: ~65kDa   |
| <b>Amino acids</b>                     | 2 to 355  |
| <b>Tags</b>                            | GST tag N-Terminus  |
| <b>Additional sequence information</b> | GenBank: NM_002070  |

### Specifications

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Our **Abpromise guarantee** covers the use of **ab268600** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** Functional Studies

SDS-PAGE

**Form** Liquid

## Preparation and Storage

**Stability and Storage** Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.50

Constituents: 0.79% Tris HCl, 0.29% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.004% DTT, 0.002% PMSF, 25% Glycerol (glycerin, glycerine)

This product is an active protein and may elicit a biological response in vivo, handle with caution.

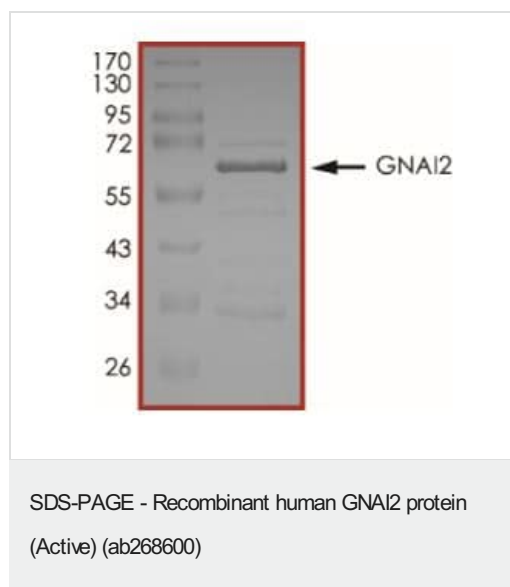
## General Info

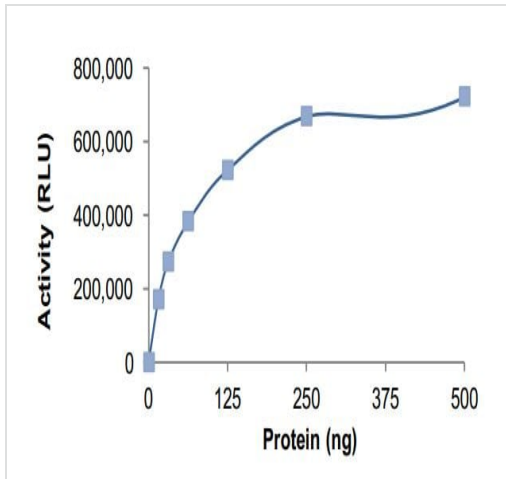
**Function** Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. The G(i) proteins are involved in hormonal regulation of adenylate cyclase: they inhibit the cyclase in response to beta-adrenergic stimuli. May play a role in cell division.

**Sequence similarities** Belongs to the G-alpha family. G(i/o/t/z) subfamily.

**Cellular localization** Cytoplasm. Cytoplasm > cytoskeleton > centrosome. Cell membrane. Localizes in the centrosomes of interphase and mitotic cells. Detected at the cleavage furrow and/or the midbody.

## Images





The specific activity of GNAI2 was determined to be 53 nmol/min/mg in a GTPase-Glo assay using GNAI2 substrate.

Functional Studies - Recombinant human GNAI2 protein (Active) (ab268600)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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