

# Human GNAO1 (Guanine nucleotide-binding protein G (o) subunit alpha) ELISA Kit | GNAO1 elisa kit

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CATALOG #  
**AAA248834**

REACTIVITY  
**Human**

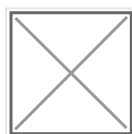
## PRODUCT SYNONYMS

GNAO1 (Guanine nucleotide-binding protein G (o) subunit alpha); Human GNAO1 (Guanine nucleotide-binding protein G (o) subunit alpha) ELISA Kit; GNAO1 elisa kit

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                      |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of GNAO1. No significant cross-reactivity or interference between GNAO1 and analogues was observed.                                |
| Sequence Length         | 354                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA, Double Antibody                                                                                                                                                                            |
| Samples                 | Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples                                                                                                                       |
| Detection Range         | 0.313-20ng/ml                                                                                                                                                                                              |
| Sensitivity             | 0.188ng/ml                                                                                                                                                                                                 |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GNAO1 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%                                     |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level GNAO1 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10% |
| Preparation and Storage | Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C                                               |

## IMAGES



Standard Curve (Sample)

## ADDITIONAL INFORMATION

### Related Product Information for GNAO1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-GNAO1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- GNAO1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the GNAO1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of GNAO1 can be calculated.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                 |
|----------------------------------|-----------------------------------------------------------------|
| NCBI GI #                        | 162461738                                                       |
| NCBI GeneID                      | 2775                                                            |
| NCBI Accession #                 | NP_620073.2                                                     |
| NCBI GenBank Nucleotide #        | NM_138736.2                                                     |
| UniProt Accession #              | P09471; P29777; Q8TD72; Q9UMV4                                  |
| Molecular Weight                 | 40,087 Da                                                       |
| NCBI Official Full Name          | guanine nucleotide-binding protein G(o) subunit alpha isoform b |
| NCBI Official Synonym Full Names | G protein subunit alpha o1                                      |
| NCBI Official Symbol             | GNAO1                                                           |
| NCBI Official Synonym Symbols    | GNAO; NEDIM; EIEE17; HLA-DQB1; G-ALPHA-o                        |
| NCBI Protein Information         | guanine nucleotide-binding protein G(o) subunit alpha           |
| UniProt Protein Name             | Guanine nucleotide-binding protein G(o) subunit alpha           |
| UniProt Gene Name                | GNAO1                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/gnao1-guanine-nucleotide-binding-protein-g-o-subunit-alpha/248834>