

**PRODUCT INFORMATION**

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| <b>Tag</b>                              | C-Flag Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Expression Host</b>                  | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Target</b>                           | GABR2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>                         | DEE59, EIEE59, GABABR2, GPR51, GPRC3B, HG20, HRIHFB2099, NDPLHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>                      | Human GABR2 full length protein-synthetic nanodisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Uniprot ID</b>                       | O75899                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Families</b>                 | GPCR, Transmembrane, Druggable Genome,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Pathways</b>                 | GPCRDB Class C Metabotropic glutamate pheromone,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Weight</b>                 | The human full length GABR2 protein has a MW of 105.8kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Delivery</b>                         | 6~8weeks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Formulation &amp; Reconstitution</b> | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution                                                                                                                                                                                                                                                                                                                                                    |
| <b>Sterility</b>                        | Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage&amp;Shipping</b>             | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.                                                                                                                                                                                                                                                                                                                                                |
| <b>Background</b>                       | The multi-pass membrane protein encoded by this gene belongs to the G-protein coupled receptor 3 family and GABA-B receptor subfamily. The GABA-B receptors inhibit neuronal activity through G protein-coupled second-messenger systems, which regulate the release of neurotransmitters, and the activity of ion channels and adenylyl cyclase. This receptor subunit forms an active heterodimeric complex with GABA-B receptor subunit 1, neither of which is effective on its own. Allelic variants of this gene have been associated with nicotine dependence.[provided by RefSeq, Jan 2010] |
| <b>Usage</b>                            | Research use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Conjugate</b>                        | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

