

# Recombinant Human Human Human GNAI1

**Cat. No.** GNB1-30631TH    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human PAFR with N terminal FLAG tag and C terminal His tag co-expressed with inhibitory G-protein $G_{i\alpha 1\beta 1\gamma 2}$ , prepared from Sf9 insect cells triple-infected with PAFR, $G_{i\alpha 1}$ and $G_{\beta 1\gamma 2}$ encoding bac                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. This gene uses alternative polyadenylation signals. |
| <b>Conjugation</b>      | FLAG,His                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage buffer</b>   | Preservative: None<br>Constituents: 75mM Tris HCl, 12.5mM Magnesium chloride, 1mM EDTA, pH 7.4                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>          | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Full Length</b>      | Full L.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | GNB1 guanine nucleotide binding protein (G protein), beta polypeptide 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                         |
| <b>Official Symbol</b>     | GNB1                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>            | GNB1; guanine nucleotide binding protein (G protein), beta polypeptide 1; guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1;                                                                                                                                                                                                                                      |
| <b>Gene ID</b>             | 2782                                                                                                                                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>         | NM_002074                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_002065                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>                 | 139380                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Uniprot ID</b>          | P62873                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Chromosome Location</b> | 1p36.33                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Pathway</b>             | ADP signalling through P2Y purinoceptor 1, organism-specific biosystem; ADP signalling through P2Y purinoceptor 12, organism-specific biosystem; Activation of G protein gated Potassium channels, organism-specific biosystem; Activation of GABAB receptors, organism-specific biosystem; Activation of Kainate Receptors upon glutamate binding, organism-specific biosystem; |
| <b>Function</b>            | G-protein coupled receptor binding; GTPase activity; GTPase binding; signal transducer activity; type 1 angiotensin receptor binding;                                                                                                                                                                                                                                            |

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