

## Active Recombinant Human GNAI3 protein, GST-tagged

Cat. No. GNAI3-191H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human GNAI3(2-end) fused with GST tag at N-terminal was expressed in E. coli.   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | E.coli  |
| <b>ProteinLength</b>    | 2-end   |
| <b>Description</b>      | Guanine nucleotide-binding proteins (G proteins) are heterotrimeric signal-transducing molecules consisting of alpha, beta, and gamma subunits, and function as transducers downstream of G protein-coupled receptors (GPCRs) in numerous signaling cascades. The alpha subunit binds guanine nucleotide, can hydrolyze GTP, and can interact with other proteins. G protein subunit alpha i3 (GNAI3) stimulates the activity of receptor-regulated K <sup>+</sup> channels. The active GTP-bound form prevents the association of RGS14 with centrosomes and is required for the translocation of RGS14 from the cytoplasm to the plasma membrane. May play a role in cell division. |
| <b>Form</b>             | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.  |
| <b>Bio-activity</b>     | 54 nmol/min/mg  |
| <b>Molecular Mass</b>   | 65 kDa  |

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|                      |  |
|----------------------|--|
| <b>Purity</b>        | >80%   |
| <b>Applications</b>  | Enzyme Assay   |
| <b>Stability</b>     | 1 year at -70 centigrade date of shipment.   |
| <b>Storage</b>       | Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| <b>Concentration</b> | 0.1 µg/µl  |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | GNAI3 guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3 [ Homo sapiens ]   |
| <b>Official Symbol</b> | GNAI3  |
| <b>Synonyms</b>        | GNAI3; guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3; guanine nucleotide-binding protein G(k) subunit alpha; 87U6; g(i) alpha-3; FLJ26559; |
| <b>Gene ID</b>         | 2773   |
| <b>mRNA Refseq</b>     | NM_006496  |
| <b>Protein Refseq</b>  | NP_006487  |
| <b>MIM</b>             | 139370   |

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UniProt ID

P08754



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