

## Recombinant Human GNAI3 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** GNAI3-2707H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | GNAI3 MS Standard C13 and N15-labeled recombinant protein (NP_006487) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling pathways. G proteins are composed of 3 units: alpha, beta and gamma. This gene encodes an alpha subunit and belongs to the G-alpha family. Mutation in this gene, resulting in a gly40-to-arg substitution, is associated with auriculocondylar syndrome, and shown to affect downstream targets in the G protein-coupled endothelin receptor pathway. |
| <b>Molecular Mass</b>   | 40.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MGCTLSAEDKAAVERSKMIDRNLRDGEKAAKEVKLLLLGAGESGKSTIVKQMKIIHEDGYSEDECKQYKVVVYSNTIQSIHAIIRAMGRLKIDFGEAARADDARQLFVLAGSAEEGVMTPELAGVIKRLWRDGGVQACFSRSREYQLNDSASYLNDLDRISQSNYIPTQQDVLRLTRVKTGTIVETHFTFKDLYFKMFDVGGQRSEKRWIHCFEQVTAIIFCVALSDDYDLVLAEDEEMNRMHESMKLFDSICNNKWFTETSIILFLNKKDLFEKIKRSPLTICYPEYTGSNTYEEAAAYIQCFEDLNRRKDTKEIYTHFTCATDTKNVQFVFDAVTDVVIKNNLKECGLYTRTRPLEQKLISEEDLAANDILDYKDDDDKV                                                                                       |

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|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

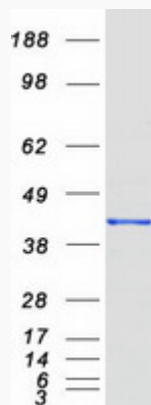
## GENE INFORMATION

|                        |                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | GNAI3 G protein subunit alpha i3 [ Homo sapiens (human) ]                                                                                                                            |
| <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                                                                                                                                                                               |
| <b>UniProt ID</b>      | P08754                                                                                                                                                                               |

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**SDS-PAGE**

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