

## Recombinant Human GNL3, His-tagged

**Cat. No.** GNL3-13370H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Recombinant Human GNL3 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 201-549a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | <p>The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the synthesis of glutamine from glutamate and ammonia. Glutamine is a main source of energy and is involved in cell proliferation, inhibition of apoptosis, and cell signaling. This gene is expressed during early fetal stages, and plays an important role in controlling body pH by removing ammonia from circulation. Mutations in this gene are associated with congenital glutamine deficiency. Several alternatively spliced transcript variants have been found for this gene.</p> |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                    |

### GENE INFORMATION

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | GNL3 guanine nucleotide binding protein-like 3 (nucleolar) [ Homo sapiens ]                                                                                                                                                                                                                   |
| <b>Official Symbol</b>     | GNL3                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>            | GNL3; guanine nucleotide binding protein-like 3 (nucleolar); guanine nucleotide-binding protein-like 3; C77032; E2IG3; MGC800; NS; nucleostemin; E2-induced gene 3 protein; novel nucleolar protein 47; nucleolar GTP-binding protein 3; estradiol-induced nucleotide binding protein; NNP47; |
| <b>Gene ID</b>             | 26354                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_014366                                                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_055181                                                                                                                                                                                                                                                                                     |
| <b>MIM</b>                 | 608011                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>          | Q9BVP2                                                                                                                                                                                                                                                                                        |
| <b>Chromosome Location</b> | 3p21.1                                                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | Ribosome biogenesis in eukaryotes, organism-specific biosystem; Ribosome biogenesis in eukaryotes, conserved biosystem;                                                                                                                                                                       |
| <b>Function</b>            | GTP binding; GTP binding; nucleotide binding; protein binding;                                                                                                                                                                                                                                |