

## Recombinant Human GMNN protein, His-tagged

**Cat. No.** GMNN-28741TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GMNN(1-209aa) fused with His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 1-209 a.a.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Geminin is a 25 kDa protein, which inhibits DNA replication and is degraded during the mitotic phase of the cell cycle. Geminin controls replication by binding to the licensing factor Cdt1, and is involved in neural differentiation. In addition, geminin directly interacts with Six3 and Hox homeodomain proteins during embryogenesis and inhibits their functions. |
| <b>Form</b>             | Liquid. In 20mM Tris (pH 8.0), 100mM NaCl, 10% Glycerol                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 27.6kDa (245aa), confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMNPS MKQKQEEIKE<br>NIKNSSVPRR TLKMIQPSAS GSLVGRENEL SAGLSKRKHRNDHLTSTTSS<br>PGVIVPESSE NKNLGGVTQE SFDLMIKENP SSQYWKEVAE KRRKALYEAL<br>KENEKLHKEI EQKDNEIARL KKENKELAEVAEHVQYMAEL IERLNGEPLD<br>NFESLDNQEF DSEEETVEDS LVEDSEIGTC AEGTVSSSTD AKPCI                                                                                    |
| <b>Purity</b>           | > 95% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                        |

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|                |                                                                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b> | Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles. |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                      |                                        |
|----------------------|----------------------------------------|
| <b>Concentration</b> | 1 mg/ml (determined by Bradford assay) |
|----------------------|----------------------------------------|

## GENE INFORMATION

|                  |                                                          |
|------------------|----------------------------------------------------------|
| <b>Gene Name</b> | GMNN geminin, DNA replication inhibitor [ Homo sapiens ] |
|------------------|----------------------------------------------------------|

|                        |      |
|------------------------|------|
| <b>Official Symbol</b> | GMNN |
|------------------------|------|

|                 |                                                         |
|-----------------|---------------------------------------------------------|
| <b>Synonyms</b> | GMNN; geminin, DNA replication inhibitor; geminin; Gem; |
|-----------------|---------------------------------------------------------|

|                |       |
|----------------|-------|
| <b>Gene ID</b> | 51053 |
|----------------|-------|

|                    |           |
|--------------------|-----------|
| <b>mRNA Refseq</b> | NM_015895 |
|--------------------|-----------|

|                       |           |
|-----------------------|-----------|
| <b>Protein Refseq</b> | NP_056979 |
|-----------------------|-----------|

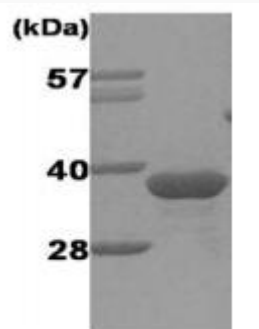
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| <b>MIM</b> | 602842 |
|------------|--------|

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|-------------------|--------|
| <b>UniProt ID</b> | O75496 |
|-------------------|--------|

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15% SDS-PAGE (3ug)

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