

# Recombinant human Geminin protein

Catalog Number: GMN0601

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-209aa

### UniProt No.

O75496

### NCBI Accession No.

NP\_056979.1

### Alternative Names

GMNN, Geminin, Geminin, DNA replication inhibitor, Gem, Geminin DNA replication inhibitor, OTTHuMP00000039393, RP3 369A17.3.

## PRODUCT SPECIFICATION

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### Molecular Weight

27.6 kDa (245aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 20% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

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.

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## Amino acid Sequence

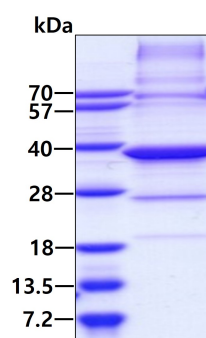
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MNPS MKQKQEEIKE NIKNSSVPRR TLKMIQPSAS  
GSLVGRENEL SAGLSKRKHR NDHLTSTTSS PGVIVPESE NKNLGGVTQE SFDLMIKENP SSQYWKEVAE KRRKALYEAL  
KENEKLHKEI EQKDNEIARL KKENKELAEV AEHVQYMAEL IERLNGEPLD NFESLDNQEF DSEEETVEDS LVEDSEIGTC  
AEGTVSSSTD AKPCI

## General References

McGarry TJ. et al (1998) Cell. 93(6):1043-53.  
Pitulescu M. et al (2005) Cell Mol Life Sci. 62(13):1425-33.  
Luo L. et al (2004) Nature. 427(6976):749-53

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.