

Recombinant human Geminin protein

Catalog Number: GMN0601

PRODUCT INFORMATION

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

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

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

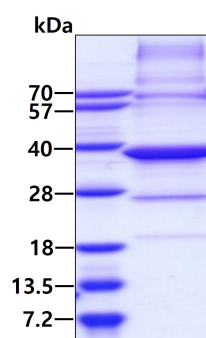
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MNPS MKQKQEEIKE NIKNSSVPRR TLKMIQPSAS
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KENEKLHKEI EQKDNEIARL KKENKELAEV AEHVQYMAEL IERLNGEPLD NFESLDNQEF DSEEETVEDS LVEDSEIGTC
AEGTVSSSTD AKPCI

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 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.