

Recombinant Human GMNN, His-tagged

Cat. No. GMNN-29013TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein: Human Geminin fused to His-Tag at N-terminus.
Species	Human
Source	E.coli
Description	This gene encodes a protein that plays a critical role in cell cycle regulation. The encoded protein inhibits DNA replication by binding to DNA replication factor Cdt1, preventing the incorporation of minichromosome maintenance proteins into the pre-replication complex. The encoded protein is expressed during the S and G2 phases of the cell cycle and is degraded by the anaphase-promoting complex during the metaphase-anaphase transition. Increased expression of this gene may play a role in several malignancies including colon, rectal and breast cancer. Alternatively spliced transcript variants have been observed for this gene, and two pseudogenes of this gene are located on the short arm of chromosome 16.
Conjugation	HIS
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: 0.002% Sodium Azide Constituents: 3mM Sodium chloride, 2.5mM Imidazole, 10mM Tris, pH 8.0

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Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the geminin family.
Full Length	Full L.

GENE INFORMATION

Gene Name	GMNN geminin, DNA replication inhibitor [Homo sapiens]
Official Symbol	GMNN
Synonyms	GMNN; geminin, DNA replication inhibitor; geminin; Gem;
Gene ID	51053
mRNA Refseq	NM_001251989
Protein Refseq	NP_001238918
MIM	602842
Uniprot ID	O75496
Chromosome Location	6p21.32
Pathway	Assembly of the pre-replicative complex, organism-specific biosystem; Association of licensing factors with the pre-replicative complex, organism-specific biosystem; CDT1 association with the CDC6:ORC:origin complex, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; DNA Replication, organism-specific

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biosystem;

Function

histone deacetylase binding; protein binding; repressing transcription factor binding;

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