

Recombinant Human GMNN protein, His & GST-tagged

Cat. No. GMNN-7837H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GMNN aa. (Met1~Ile209 (Accession # O75496)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Ile209
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.
Form	Freeze-dried powder
Molecular Mass	64kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>90%
Characteristic	The isoelectric point is 4.9.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	GMNN geminin, DNA replication inhibitor [Homo sapiens (human)]
Official Symbol	GMNN
Synonyms	Thbs2; thrombospondin 2; TSP2; Thbs-2; thrombospondin-2
Gene ID	51053
mRNA Refseq	NM_001251989.1

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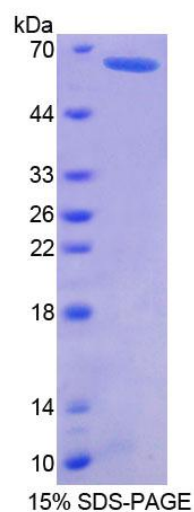
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Protein Refseq NP_001238918.1

UniProt ID O75496

SDS-PAGE



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