Geminin (GMNN) Protein

PRODUCT OVERVIEW

Product Name	Geminin (GMNN), Protein
Full Product Name	Geminin
Product Gene Name	GMNN protein
Sequence	CLTRNRLNRK RFRILG
Host	E Coli
Form/Format	Liquid
Purity/Purification	>95% by SDS-PAGE
Preparation and Storage	Store at -20 degree C. Avoid repeated freezing and thawing.
Molecular Weight	23,565 Da
OMIM	602842
3D Structure	ModBase 3D Structure for O75496
Tags	His
Storage Buffer	50mM NaH2PO4, 500mM NaCl Buffer with 500mM Imidazole,10%glycerol(PH8.0)
Applications Tested/Suitable for GMNN protein	ELISA (EIA), Western Blot (WB), Affinity Purification (AP), Protein Array
Related Product Information for GMNN protein	MBS2889279 is a protein targeting GMNN. Also known as Geminin. Host: E Coli.
Other Notes	Small volumes of GMNN protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GMNN. It may not necessarily be applicable to this product.

NCBI GI #	354681980
NCBI GeneID	51053
NCBI Accession #	NP_001238918.1
UniProt Primary Accession #	O75496
UniProt Secondary Accession #	Q9H1Z1; B3KMM8
UniProt Related Accession #	O75496
GenBank Nucleotide #	NM_001251989.1
NCBI Official Full Name	geminin
NCBI Official Synonym Full Names	geminin, DNA replication inhibitor
NCBI Official Symbol	GMNN

NCBI Official Synonym Symbols	Gem; MGORS6
UniProt Protein Name	Geminin
Protein Family	Geminin
UniProt Gene Name	GMNN
NCBI Protein Information	geminin
NCBI Summary for GMNN	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. [provided by RefSeq, Oct 2011]
UniProt Comments for GMNN	Inhibits DNA replication by preventing the incorporation of MCM complex into pre-replication complex (pre-RC). It is degraded during the mitotic phase of the cell cycle. Its destruction at the metaphase-anaphase transition permits replication in the succeeding cell cycle.
Research Articles on GMNN	**1.** High Geminin expression is associated with triple negative breast cancers.
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