

Recombinant Human GSN

Cat. No. GSN-29014TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Gelsolin with an N terminal proprietary tag; Predicted MWt 112.09 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	782 amino acids
Description	The protein encoded by this gene binds to the "plus" ends of actin monomers and filaments to prevent monomer exchange. The encoded calcium-regulated protein functions in both assembly and disassembly of actin filaments. Defects in this gene are a cause of familial amyloidosis Finnish type (FAF). Multiple transcript variants encoding several different isoforms have been found for this gene.
Molecular Weight	112.090kDa inclusive of tags
Tissue specificity	Phagocytic cells, platelets, fibroblasts, nonmuscle cells, smooth and skeletal muscle cells.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione

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Storage Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Sequences of amino acids

MAPHRPAPALLCALSLALCALSLPVRAATASRGASQAGAP QGRVPEARPNMVMVE
HPEFLKAGKEPGLQIWRVEKFDLVP VPTNLYGDFFTGDAYVILKTVQLRNGNLQYDL
HYWLGNEC SQDESGAAAIFTVQLDDYLNGRAVQHREVQGFESATFLGY FKSGLKY
KKGGVASGFKHVVPNEVVQRLFQVKGRRVVRA TEVPVSWESFNNGDCFILDGN
NIHQWCGSNSNRYERLKA TQVSKGIRDNERSGRARVHVSEEGTEPEAMLQVLGPK
PAL PAGTEDTAKEDAANRKLAKLYKVSNGAGTMSVSLVADENP FAQGALKSEDCFI
LDHGKDGKIFVWKGKQANTEERKAALK TASDFITKMDYPKQTQVSVLPEGGETPLF
KQFFKNWRDPD QTDGLGLSYLSSHIANVERVPFDAATLHTSTAMAAQHGMDDG
TGQKQIWRIEGSNKVPVDPATYGGFYGGDSYIILYNY RHGGRQGGQIYNWQGAQST
QDEVAASAILTAQLDEELGGT PVQSRVVQGKEPAHLMSLFGGKPMIYKGGTSREG
GQTAP ASTRLFQVRANSAGATRAVEVLPKAGALNSNDAFVLKTPS AAYLWVGTGA
SEAEKTGAQELLRVLRAQPVQVAEGSEPDG FWEALGGKAAARTSPRLKDKKMDAH
PPRLFACSNKIGRFV IEEVPGELMQEDLATDDVMLLDTWDQVFVWVGKDSQEEEEK
TEALTSAKRYIETDPANRDRRTPITVVKQGFEPSPFVGWF LGWDDDYWSVDPLDR
AMAEELAA

Sequence Similarities Belongs to the villin/gelsolin family. Contains 6 gelsolin-like repeats.

GENE INFORMATION

Gene Name GSN gelsolin [Homo sapiens]

Official Symbol GSN

Synonyms GSN; gelsolin; gelsolin (amyloidosis, Finnish type); amyloidosis; Finnish type; DKFZp313L0718;

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Gene ID	2934
mRNA Refseq	NM_000177
Protein Refseq	NP_000168
MIM	137350
Uniprot ID	P06396
Chromosome Location	9q33
Pathway	Amyloids, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem; Caspase cascade in apoptosis, organism-specific biosystem;
Function	actin binding; calcium ion binding; protein binding;

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