

Recombinant Human SGSH protein, His-tagged

Cat. No. SGSH-195H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SGSH fused with His tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
Description	This gene encodes one of several enzymes involved in the lysosomal degradation of heparan sulfate. Mutations in this gene are associated with Sanfilippo syndrome A, one type of the lysosomal storage disease mucopolysaccharidosis III, which results from impaired degradation of heparan sulfate. Transcripts of varying sizes have been reported but their biological validity has not been determined.
Form	Supplied as a 0.2 μM filtered solution of 20mM TrisHCl, 150mM NaCl, 1mM GaCl ₂ , 10% Glycerol, pH 7.5
Molecular Mass	55.72kD
AA Sequence	RPRNALLLLADDGGFESGAYNNSAIATPHLDALARRSLLFRNAFTSVSSCSPSRASL LTGLPQHQNGLMYGLHQDV HHFNSFDKVRSLPLLLSQAGVRTGIIGKKHVGPEVYP FDFAYTEENGSVLQVGRNITRIKLLVRKFLQTQDDRP FFLYVAFHDPHRCGHSQPQ YGTFCCKFGNGESGMGRIPDWTPQAYDPLDVLVPYFVPNTPAARADLAAQYTTVG R MDQGVGLVLQELRDAGVLNDTLVFTSDNGIPFSGRTNLYWPGTAEPDLLVSSPE HPKRWGQVSEAYVSLDLTP TILDWFSIPYPSYAIFGSKTIHLTGRSLLPALEAEPLW ATVFGSQSHHEVTMSYPMRSVQHRHFRVLVHNLNFKMP FPIDQDFYVSPTFQDLLN

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RTTAGQPTGWYKDLRHYYRARWELYDRSRDPHETQNLATDPRFAQLLEMLRDQL
AK WQWETHDPWVCAPDGVLEEKLSQCQPLHNELVDHHHHHH

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

GENE INFORMATION

Gene Name SGSH N-sulfoglucosamine sulfohydrolase [Homo sapiens]

Official Symbol [SGSH](#)

Synonyms SGSH; N-sulfoglucosamine sulfohydrolase; N-sulphoglucosamine sulphohydrolase; HSS; MPS3A; mucopolysaccharidosis type IIIA; SFMD; sulfamidase; sulphamidase; heparan sulfate sulfatase; sulfoglucosamine sulfamidase;

Gene ID [6448](#)

mRNA Refseq [NM_000199](#)

Protein Refseq [NP_000190](#)

MIM [605270](#)

UniProt ID [P51688](#)

Chromosome Location 17q25.3

Pathway Glycosaminoglycan degradation, organism-specific biosystem; Glycosaminoglycan degradation, conserved biosystem; Heparan sulfate degradation, organism-specific

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biosystem; Heparan sulfate degradation, conserved biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolic pathways, organism-specific biosystem;

Function

N-sulfoglucosamine sulfohydrolase activity; catalytic activity; hydrolase activity; metal ion binding; sulfuric ester hydrolase activity;

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