

## Recombinant Human SGSH protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human SGSH fused with His tag at C-terminal was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Form</b>	Supplied as a 0.2 μM filtered solution of 20mM TrisHCl, 150mM NaCl, 1mM GaCl <sub>2</sub> , 10% Glycerol, pH7.5
<b>Molecular Mass</b>	55.72kD
<b>AA Sequence</b>	RPRNALLLLADDGGFESGAYNNSAIATPHLDALARRSLLFRNAFTSVSSCSPSRASL LTGLPQHQNEMYGLHQDV HHFNSFDKVRSLPLLLSQAGVRTGIIGKKHVGPEVYP FDFAYTEENGSVLQVGRNITRIKLLVRKFLQTQDDRP FFLYVAFHDPHRCGHSQPQ YGTFCFKFGNGESGMGRIPDWTPQAYDPLDVLVPYFVPNTPAARADLAAQYTTVG R MDQGVGLVLQELRDAGVLNDTLVIFTS DNGIPFPSGRTNLYWPGTAEPLLVSSE HPKRWGQVSEAYVSLDLTP TILDWFSIPYPSYAIFGSKTIHILTGRSLLPALEAEPLW ATVFGSQSHHEVTMSYPMRSVQHRHFRLVHNLNFKMP FPIDQDFYVSPTFQDLLN

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RTTAGQPTGWYKDLRHYYRARWELYDRSRDPHETQNLATDPRFAQLLEMLRDQL  
AK WQWETHDPWVCAPDGVLEEKLSPQCQLHNELVDHHHHHH

**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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