

Recombinant Human SGSH

Cat. No. SGSH-30971TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human SGSH with proprietary N terminal tag; Predicted MW 81.29 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	502 amino acids
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.
Molecular Weight	81.290kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

MSCPVPACCALLLVGLCRARPRNALLLLADDGGFESGAY NNSAIATPHLDALARR
 SLLFRNAFTSVSSCSPSRASLLTG LPQHQNNGMYGLHQDVHHFNSFDKVRSLPLLLS
 QAGVRTGI IGKKHVGPEVYPFDAYTEENGSVLQVGRNITRIKLLVR KFLQTQDDR
 PFFLYVAFHDPHRCGHSQPQYGTFCFKFGNG ESGMGRIPDWTPQAYDPLDVLVPY
 FVPNTPAARADLAAQY TTVGRMDQGVGLVLQELRDAGVLNDTLVIFTSDNGIPFPS
 GRTNLYWPGTAEPDLLVSSPEHPKRWGQVSEAYVSLDLTP TILDWFSIPYPSYAIFG
 SKTIHLTGRSLLPALEAEPLWAT VFGSQSHHEVTMSYPMRSVQHRHFRLVHNLNFK
 MPFPIDQ DFYVSPTFQDLLNRTTAGQPTGWYKDLRHYYRARWELYD RSRDPHE
 TQNLATDPRFAQLLEMLRDQLAKWQWETHDPWV CAPDGVLEEKLSQCQPLHNE
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Sequence Similarities

Belongs to the sulfatase family.

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;

Gene ID [6448](#)

mRNA Refseq [NM_000199](#)

Protein Refseq [NP_000190](#)

MIM [605270](#)

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Uniprot ID	P51688
Chromosome Location	17q25.3
Pathway	Glycosaminoglycan degradation, organism-specific biosystem; Glycosaminoglycan degradation, conserved biosystem; Heparan sulfate degradation, organism-specific biosystem; Heparan sulfate degradation, conserved biosystem; Lysosome, organism-specific biosystem;
Function	N-sulfoglucosamine sulfohydrolase activity; catalytic activity; hydrolase activity; metal ion binding; sulfuric ester hydrolase activity;

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