

# Recombinant Full Length Human SGSH Protein

**Cat. No.** SGSH-473HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human SGSH with proprietary N terminal tag; Predicted MW 81.29 kDa.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	502 amino acids
<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>	Liquid
<b>Molecular Mass</b>	81.290kDa inclusive of tags
<b>AA Sequence</b>	MSCPVPACCALLLVGLCRARPRNALLLLADDGGFESGAY NNSAIATPHLDALARR SLLFRNAFTSVSSCSPSRASLLTG LPQHQNNGMYGLHQDVHHFNSFDKVRSLPLLLS QAGVRTGI IGKKHVGPETVYPFDFAYTEENGSVLQVGRNITRIKLLVR KFLQTQDDR PFFLYVAFHDPHRCGHSQPQYGTFCFKFGNG ESGMGRIPDWTPQAYDPLDVLVPY FVPNTPAARADLAAQY TTVGRMDQGVGLVLQELRDAGVLDLTLVIFTSDNGIPFPS GRTNLYWPGTAEPLLVSPEHPKRWGQVSEAYVSLDLTP TILDWFSIPYPSYAIFG

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SKTIHLTGRSLLPALEAEPLWAT VFGSQSHHEVTMSYPMRSVQHRHFRLVHNLNFK  
 MPFPIDQ DFYVSPTFQDLLNRRTTAGQPTGWYKDLRHYYYRARWELYD RSRDPHE  
 TQNLATDPRFAQLLEMLRDQLAKWQWETHDPWV CAPDGVLEEKLSPQCQPLHNE  
 L

**Purity** Proprietary Purification

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

**Storage Buffer** pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

## 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](#)

**UniProt ID** [P51688](#)

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