

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: 8.00 Constituents: 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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 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids

MSCPVPACCALLLVLGLCRARPRNALLLLADDGGFESGAY NNSAIATPHLDALARR
 SLLFRNAFTSVSSCSPSRASLLTG LPQHQNGMYGLHQDVHHFNSFDKVRSLPLLLS
 QAGVRTGI IGKKHVGPETVYPPDFAYTEENGSVLQVGRNITRIKLLVR KFLQTQDDR
 PFFLYVAFHDPHRCGHSQPQYGTFCFKFGNG ESGMGRIPDWTPQAYDPLDVLVPY
 FVPNTPAARADLAAQY TTVGRMDQGVGLVLQELRDAGVLNDTLVIFTSDNGIPFPS
 GRTNLYWPGTAEPLLVSSEHPKRWGQVSEAYVSLLDLTP TILDWFSIPYPSYAIFG
 SKTIHLTGRSLLPALEAEPLWAT VFGSQSHHEVTMSYPMRSVQHRHFRLVHNLNFK
 MPFPIDQ DFYVSPTFQDLLNRRTTAGQPTGWYKDLRHYYYRARWELYD RSRDPHE
 TQNLATDPRFAQLLEMLRDQLAKWQWETHDPWV CAPDGVLEEKLSPQCQPLHNE
 L

Sequence

Belongs to the sulfatase family.

Similarities

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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