

Recombinant Human SGSH, GST-tagged

Cat. No. SGSH-280H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SGSH (1 a.a. - 502 a.a.) fused with GST-tag at N-terminal, was expressed in vitro wheat germ expression system.
Species	Human
Source	Wheat Germ
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 Mass	83.1 kDa
Sequence	<p>MSCPVPACCALLLVGLCRARPRNALLLLADDGGFESGAYNNSAIATPHLDALARRS LLFRNAFTSVSSCSPSRASLLTGLPQHQNMGMYGLHQDVHHFNSFDKVRSLPLLLSQ AGVRTGIIGKKHVGPEVYPPDFAYTEENGSVLQVGRNITRIKLLVRKFLQTQDDRPF FLYVAFHDPHRCGHSQPQYGTFCFKGNGESGMGRIPDWTPQAYDPLDVLVYFV PNTPAARADLAAQYTTVGRMDQGVGLVLQELRDAGVLNDTLVIFTSDNGIPFPSGRT NLYWPGTAEPLLVSSEHPKRWGVSEAYVSLDLTPTILDWFSIPYPSYAIFGSKI HLTGRSLLPALEAEPLWATVFGSQSHHEVTMSYPMRSVQHRHFRLVHNLNFKMPF PIDQDFYVSPTFQDLLNRRTAGQPTGWYKDLRHYYYRARWELYDRSRDPHETQNL ATDPRFAQLLEMLRDQLAKWQWETHDPWVCAPDGVLEEKLSPQCQPLHNEL</p>

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Storagebuffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.
Applications	ELISA; WB
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
OfficialSymbol	SGSH

GENE INFORMATION

Gene Name	SGSH N-sulfoglucosamine sulfohydrolase [Homo sapiens]
Synonyms	SGSH; N-sulfoglucosamine sulfohydrolase; HSS; MPS3A; mucopolysaccharidosis type IIIA; SFMD; sulfamidase; heparan sulfate sulfatase; sulfoglucosamine sulfamidase; N-sulphoglucosamine sulphohydrolase; EC 3.10.1.1; Sulfoglucosamine sulfamidase; Sulphamidase
Gene ID	6448
mRNA Refseq	NM_000199
Protein Refseq	NP_000190
MIM	605270
UniProt ID	P51688
Chromosome Location	17q25.3
Pathway	Glycosaminoglycan degradation; Heparan sulfate degradation; Lysosome; MPS I - Hurler syndrome

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Function

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

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