Recombinant Human SGSH protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human SGSH fused with His tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
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 mucopolysaccaridosis III, which results from impaired degradation of heparan sulfate. Transcripts of varying sizes have been reported but their biological validity has not been determined.
Form	Supplied as a 0.2 μM filtered solution of 20mM TrisHCl,150mM NaCl,1mM GaCl2,10%Glycerol,pH7.5
Molecular Mass	55.72kD
AA Sequence	RPRNALLLLADDGGFESGAYNNSAIATPHLDALARRSLLFRNAFTSVSSCSPSRASL LTGLPQHQNGMYGLHQDV HHFNSFDKVRSLPLLLSQAGVRTGIIGKKHVGPETVYP FDFAYTEENGSVLQVGRNITRIKLLVRKFLQTQDDRP FFLYVAFHDPHRCGHSQPQ YGTFCEKFGNGESGMGRIPDWTPQAYDPLDVLVPYFVPNTPAARADLAAQYTTVG R MDQGVGLVLQELRDAGVLNDTLVIFTSDNGIPFPSGRTNLYWPGTAEPLLVSSPE HPKRWGQVSEAYVSLLDLTP TILDWFSIPYPSYAIFGSKTIHLTGRSLLPALEAEPLW ATVFGSQSHHEVTMSYPMRSVQHRHFRLVHNLNFKMP FPIDQDFYVSPTFQDLLN

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	RTTAGQPTGWYKDLRHYYYRARWELYDRSRDPHETQNLATDPRFAQLLEMLRDQL AK WQWETHDPWVCAPDGVLEEKLSPQCQPLHNELVDHHHHHH
Endotoxin	Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).
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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