

Recombinant Full Length Human SGSH Protein, C-Flag-tagged

Cat. No. SGSH-965HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SGSH Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes the enzyme sulfamidase; one of several enzymes involved in the lysosomal degradation of heparan sulfate. Mutations in this gene are associated with the lysosomal storage disease mucopolysaccharidosis IIIA, also known as Sanfilippo syndrome A, which results from impaired degradation of heparan sulfate. Transcripts of varying sizes have been reported but their biological validity has not been determined.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.6 kDa
AA Sequence	MSCPVPACCALLLVGLCRARPRNALLLLADDGGFESGAYNNSAIATPHLDALARRS LLFRNAFTSVSSC SPSRASLLTGLPQHQNGLYGLHGDVHHFNSFDKVRSLPLLLSQ AGVRTGIIGKKHVGPEVYPFDFAYTE ENGSLVQVGRNITRIKLLVRKFLQTQDDRP FFLYVAFHDPHRCGHSQPQYGTFCFKNGESGMGRIPDW TPQAYDPLDVLVPYF VPNTPAARADLAAQYTTVGRMDQGVGLVLQELRDAGVLNDTLVFTSDNGIPFPS G RTNLYWPGTAEPLLVSSPEHPKRWGQVSEAYVSLDLTPTILDWFSIPYPSYAIFGSK TIHLTGRSLLP ALEAEPLWATVFGSQSHHEVTMSYPMRSVQHRHRLVHNLNFKMP

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FPIDQDFYVSPTFQDLLNRTTAGQP TGWYKDLRHYYYRARWELYDRSRDPHETQN
LATDPRFAQLLEMLRDQLAKWQWETHDPWVCAPDGVLEEK
LSPQCQPLHNELTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Glycosaminoglycan degradation, Lysosome, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

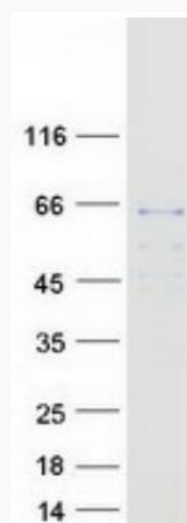
Gene Name	SGSH N-sulfoglucosamine sulfohydrolase [Homo sapiens (human)]
Official Symbol	SGSH
Synonyms	HSS; SFMD; MPS3A
Gene ID	6448

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mRNA Refseq	NM_000199.5
Protein Refseq	NP_000190.1
MIM	605270
UniProt ID	P51688



Coomassie blue staining of purified SGSH protein.