

Recombinant Full Length Human SGSH Protein, GST-tagged

Cat. No. SGSH-474HF Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full length 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 In Vitro Cell Free System

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 Mass 83.1 kDa

AA Sequence

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MSCPVPACCA LLLVLGLCRA RPRNALLLLA DDGGFESGAY NNSAIATPHL
DALARRSLLF RNAFTSVSSC SPSRASLLTG LPQHQNGMYG LHQDVHHFNS
FDKVRSLPLL LSQAGVRTGI IGKKHVGPET VYPDFDAYTE ENGSVLQVGR
NITRIKLLVR KFLQTQDDRP FFLYVAFHDP HRCGHSQPQY GTFCEKFGNG
ESGMGRIPDW TPQAYDPLDV LVPYFVPNTP AARADLAAQY TTVGRMDQGV
GLVLQELRDA GVLNDTLVIF TSDNGIPFPS GRTNLYWPGT AEPLLVSPE
HPKRWGQVSE AYSVLLDLTP TILDWFSIPY PSYAIFGSKT IHLTGRSLLP
ALEAEPLWAT VFGSQSHHEV TMSYPMRSVQ HRHFRLVHNL NFKMPFPIDQ
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 Tel: 1-631-559-9269 1-516-512-3133

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

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

DFYVSPTFQD LLNRTTAGQP TGWYKDLRHY YYRARWELYD RSRDPHETQN
LATDPRFAQL LEMLRDQLAK WQWETHDPWV CAPDGVLEEK LSPQCQPLHN EL

Applications

ELISA; WB

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

SGSH N-sulfoglucosamine sulfohydrolase [Homo sapiens]

Official Symbol

SGSH

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

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