

Endo S2 Protein, *S. pyogenes* (His)

Cat. No.:	HY-P79064
Synonyms:	Secreted Endo-beta-N-acetylglucosaminidase (EndoS); endoS; Spy49_1414c; Endo-beta-N-acetylglucosaminidase S2
Species:	Others
Source:	<i>E. coli</i>
Accession:	ACI61688.1 (E37-D843)
Gene ID:	/
Molecular Weight:	Approximately 95 kDa

PROPERTIES

AA Sequence

E E K T V Q T G K T	D Q Q V G A K L V Q	E I R E G K R G P L	Y A G Y F R T W H D
R A S T G I D G K Q	Q H P E N T M A E V	P K E V D I L F V F	H D H T A S D S P F
W S E L K D S Y V H	K L H Q Q G T A L V	Q T I G V N E L N G	R T G L S K D Y P D
T P E G N K A L A A	A I V K A F V T D R	G V D G L D I D I E	H E F T N K R T P E
E D A R A L N V F K	E I A Q L I G K N G	S D K S K L L I M D	T T L S V E N N P I
F K G I A E D L D Y	L L R Q Y Y G S Q G	G E A E V D T I N S	D W N Q Y Q N Y I D
A S Q F M I G F S F	F E E S A S K G N L	W F D V N E Y D P N	N P E K G K D I E G
T R A K K Y A E W Q	P S T G G L K A G I	F S Y A I D R D G V	A H V P S T Y K N R
T S T N L Q R H E V	D N I S H T D Y T V	S R K L K T L M T E	D K R Y D V I D Q K
D I P D P A L R E Q	I I Q Q V G Q Y K G	D L E R Y N K T L V	L T G D K I Q N L K
G L E K L S K L Q K	L E L R Q L S N V K	E I T P E L L P E S	M K K D A E L V M V
G M T G L E K L N L	S G L N R Q T L D G	I D V N S I T H L T	S F D I S H N S L D
L S E K S E D R K L	L M T L M E Q V S N	H Q K I T V K N T A	F E N Q K P K G Y Y
P Q T Y D T K E G H	Y D V D N A E H D I	L T D F V F G T V T	K R N T F I G D E E
A F A I Y K E G A V	D G R Q Y V S K D Y	T Y E A F R K D Y K	G Y K V H L T A S N
L G E T V T S K V T	A T T D E T Y L V D	V S D G E K V V H H	M K L N I G S G A I
M M E N L A K G A K	V I G T S G D F E Q	A K K I F D G E K S	D R F F T W G Q T N
W I A F D L G E I N	L A K E W R L F N A	E T N T E I K T D S	S L N V A K G R L Q
I L K D T T I D L E	K M D I K N R K E Y	L S N D E N W T D V	A Q M D D A K A I F
N S K L S N V L S R	Y W R F C V D G G A	S S Y Y P Q Y T E L	Q I L G Q R L S N D
V A N T L K D			

Biological Activity

Measured by its ability to digest Cy5-Labeled Glycan G2>50% of Cy5-Labeled Glycan G2 (0.2 pmol) is digested by 0.2 µg of rSp. Endo-S2.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

EndoS2 has a broader substrate glycan specificity, hydrolyzing not only biantennary CT N-glycans, but also high-mannose (HM), hybrid, and bisecting CT N-glycans on IgG^[1].

Endo-β-N-acetylglucosaminidases (ENGases, EC 3.2.1.96) are a class of enzymes, which can hydrolytically cleave β-1,4 glycosidic bonds within the N,N'-diacetylchitobiose moiety in the inner-core region of N-glycan and release glycan chain from their associated proteins, thus leaving one unit of N-acetylglucosamine (GlcNAc), with or without the core fucose, linked to the asparagine residue^[2].

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA