

## SIAE Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P71309
<b>Synonyms:</b>	Sialate O-Acylesterase; H-Lse; Sialic Acid-Specific 9-O-Acylesterase; SIAE; YSG2
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9HAT2-1 (I24-K523)
<b>Gene ID:</b>	54414
<b>Molecular Weight:</b>	64-77 kDa

### PROPERTIES

#### AA Sequence

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

**Appearance** Solution.

**Formulation** Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 10% Glycerol, pH 7.5.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** N/A

**Storage & Stability** Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

**Shipping** Shipping with dry ice.

### DESCRIPTION

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**Background**

The SIAE (Sialic Acid Acetyltransferase) protein is an enzyme that plays a crucial role in sialic acid metabolism by catalyzing the removal of O-acetyl ester groups from position 9 of the parent sialic acid, N-acetylneuraminic acid. This enzymatic activity is important for regulating the structural modifications of sialic acids, which are essential components of glycoproteins and glycolipids. SIAE-mediated deacetylation at position 9 influences the overall charge and structure of sialic acids, impacting cellular interactions, immune responses, and signal transduction. Understanding the functions of SIAE provides insights into the dynamic regulation of sialic acid modifications and their implications for various physiological processes.

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

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