

SIAE Protein, Human (sf9, His)

Cat. No.:	HY-P74548
Synonyms:	Sialate O-Acylesterase; H-Lse; Sialic Acid-Specific 9-O-Acylesterase; SIAE; YSG2
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9HAT2 (M1-K523)
Gene ID:	54414
Molecular Weight:	Approximately 61 kDa

PROPERTIES

Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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	The SIAE (Sialic Acid Acylesterase) 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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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