

## Recombinant Human SIAE Protein (Baculovirus, His Tag)

Catalog No. PKSH030659

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

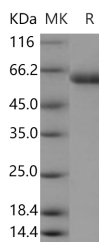
### Description

<b>Synonyms</b>	Sialate O-Acetyltransferase;H-Lse;Sialic Acid-Specific 9-O-Acetyltransferase;SIAE;YSG2;AIS6;CSE-C;CSEC
<b>Species</b>	Human
<b>Expression Host</b>	Baculovirus-Insect Cells
<b>Sequence</b>	Met 1-Lys523
<b>Accession</b>	Q9HAT2-1
<b>Calculated Molecular Weight</b>	57.4 kDa
<b>Observed molecular weight</b>	61 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 97 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



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### Background

Sialate O-acetyltransferase belongs to the family of hydrolases, specifically those acting on carboxylic ester bonds. It is

### For Research Use Only

widely expressed with high expression in the testis, prostate, and colon. The systematic name of this enzyme class is N-acyl-O-acetylneuraminate O-acetylhydrolase. Other names in common use include N-acetylneuraminate acetyltransferase, sialate 9(4)-O-acetylsterase, and sialidase. Sialate O-acetylsterase catalyzes the removal of O-acetyl ester groups from position 9 of the parent sialic acid, N-acetylneuraminic acid. Defects in Sialate O-acetylsterase are a cause of autoimmune disease type 6 (AIS6). Individuals manifesting susceptibility to autoimmune disease type 6 can suffer from juvenile idiopathic arthritis, rheumatoid arthritis, multiple sclerosis, Sjogren syndrome, systemic lupus erythematosus, type 1 diabetes, ulcerative colitis, and Crohn disease.