

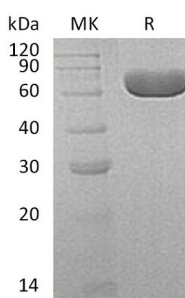
**Product Name: Recombinant Human SIAE (C-6His)**  
**Catalog #: PHH1524**



## Summary

<b>Name</b>	Sialate O-acetylesterase/SIAE
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Human Sialate O-Acetylesterase is produced by our Mammalian expression system and the target gene encoding Ile24-Lys523 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	Q9HAT2
<b>Host</b>	Human Cells
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	57 KDa
<b>Formulation</b>	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 7.5.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	

## SDS-PAGE image



## Background

<b>Alternative Names</b>	Sialate O-Acetylesterase; H-Lse; Sialic Acid-Specific 9-O-Acetylesterase; SIAE; YSG2
<b>Background</b>	Sialate O-Acetylesterase (SIAE) belongs to the family of hydrolases, specifically those acting on carboxylic ester bonds. SIAE is widely expressed with high expression levels in the testis, prostate, and colon. SIAE catalyzes N-acetyl-O-

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acetylneuraminate and H<sub>2</sub>O to N-acetylneuraminate and acetate. SIAE removes O-acetyl ester groups from position 9 of the parent sialic acid, N-acetylneuraminic acid. SIAE down-regulates B lymphocyte antigen receptor signaling (involving CD22), and is required for immunological tolerance. Loss of function mutations in SIAE are much more frequently found in humans with autoimmune diseases especially rheumatoid arthritis and type 1 diabetes.

### **Note**

For Research Use Only , Not for Diagnostic Use.