

## 32-7750: Recombinant Human Sialate O-Acetyltransferase/SIAE (C-6His)

**Gene :** SIAE  
**Gene ID :** 54414  
**Uniprot ID :** Q9HAT2

### Description

Source: Human Cells.  
MW :57kD.

Recombinant Human Sialate O-Acetyltransferase is produced by our Mammalian expression system and the target gene encoding Ile24-Lys523 is expressed with a 6His tag at the C-terminus. Sialate O-Acetyltransferase (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-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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl,150mM NaCl,10%Glycerol,pH7.5.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** IGFRFASYINNDMVLQKEPAGAVIWGFGTPGATVTVTLRQGQETIMKKVTSVKAHSDTWMMVLDPMKPGGPFVMAQQTLEKINFTLRVHVDVLFQDVWLCGQSNMQMTVLQIFNATRELSNTAAYQSVRILSVPIQAEQELEDLVAVDLQWSKPTSENLGHGYFKYMSAVCWLFGRHLYDTLQYPIGLIASSWGGTPIEAWSSGRSLKACGVPKQGSIPYDSVTGSPKHSVLWNAMIHPLCNMTLKGVVWYQGESNINYNTDLYNCTFPALIEDWRETFHRGSQGQTERFFPFGLVQLSSDLSKKSSDDGFPQIRWHQTADFGYVNPMPNTFMAVAMDLCDRDSPFGSIHPRDKQTVAYRLHLGARALAYGEKNLTFEGLPEKIELLAHKLLNLTYYQIQVQKKNKIFEISCCSDHRCKWLPASMNTVSTQSLTLAIDSCHGTVVVALRYAWTTWPCEYKQCPLYHPSSALPAPPFIAFITDQGPQHQSNAKVDHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.