

Product datasheet for **TP726971**

SIAE Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Sialate O-Acetyltransferase/SIAE (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ile24-Lys523
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 7.5.
Note:	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.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	54414
UniProt ID:	Q9HAT2
Synonyms:	Sialate O-Acetyltransferase; H-Lse; Sialic Acid-Specific 9-O-Acetyltransferase; SIAE; YSG2
Summary:	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 ₂ 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.



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