



# Recombinant Rat Sialidase-1 (Neu1)

<b>Product Code</b>	CSB-BP858791RA
<b>Abbreviation</b>	Neu1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q99PW3
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	R TEDDFSLVQP LVTMEQLLWV SGKQIGSVDT FRIPLITATP RGTLLAFAEA RKKSASDEGA KFIAMRRSTD QGSTWSSTAF IVDDGEASDG LNLGAVVNDV DTGVVFLIYT LCAHKVNCQV ASTMLVWSKD DGVSWSPPRN LSVDIGTEMF APGPGSGIQK QREPWKGR LI VCGHGT LERD GV FCLLSDDH GASWHYGTGV SGIPFGQPKH DHDFNPDECQ PYELPDG SVI INARNQNNYH CR CRIVLRSY DACD TLPRD VTFDPELVDP VVAAGALATS SGIVFFSNPA HPEYRVNLT L RWSFSNGTFW QKERVQLWPG PSGYSSLTAL ENSTDGKKQP PQLFVLYEKG LNRYTESISM VKISVYGTL
<b>Source</b>	Baculovirus
<b>Target Names</b>	Neu1
<b>Protein Names</b>	Recommended name: Sialidase-1 EC= 3.2.1.18 Alternative name(s): Lysosomal sialidase N-acetyl-alpha-neuraminidase 1
<b>Expression Region</b>	40-409
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein is a lysosomal enzyme that cleaves terminal sialic acid residues from substrates such as glycoproteins and glycolipids. In the lysosome, this enzyme is part of a heterotrimeric complex together with beta-galactosidase and cathepsin A (the latter is also referred to as protective protein ). Mutations in this gene can lead to sialidosis, a lysosomal storage disease that can be type 1 (cherry red spot-myoclonus syndrome or normosomatic type), which is late-onset, or type 2 (the dysmorphic type), which occurs at an earlier age with increased severity.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final



concentration of glycerol is 50%. Customers could use it as reference.

---

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.