



# Recombinant Rat Sialidase-1 (Neu1)

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| <b>Product Code</b>      | CSB-EP858791RA  |
| <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.<br>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<br>RKKSASDEGA KFIAMRRSTD QGSTWSSTAF IVDDGEASDG LNLGAVVNDV<br>DTGVVFLIYT LCAHKVNCQV ASTMLVWSKD DGVSWSPPRN LSVDIGTEMF<br>APGPGSGIQK QREPWKGR LI VCGHGTLERD GVFCLLSDDH GASWHYGTGV<br>SGIPFGQPKH DHDFNPDECQ PYELPDGSVI INARNQNNYH CRCRIVLRSY<br>DACDTLRPRD VTFDPELVDP VVAAGALATS SGIVFFSNPA HPEYRVNLT<br>RWSFSNGTFW QKERVQLWPG PSGYSSLTAL ENSTDGKKQP<br>PQLFVLYEKG LNRYTESISM VKISVYGTL  |
| <b>Source</b>            | E.coli  |
| <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.

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