



# Recombinant Pig Sialidase-1 (NEU1)

<b>Product Code</b>	CSB-MP015717PI
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	A5PF10
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Sus scrofa (Pig)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	KN DFNLVHPLVT MEQLLWVSGK QIGSVDTFRI PLITTTPRGT LLAFAEARKM SASDKGAKFI ALRRSMDQGS TWSPTAFIVD DGETPDGLNL GAVVSDTTTG VVFLFYSLCA HKAGCRVAST MLVWSKDDGI SWSSPRNLSL DIGTEMFAPG PGSGIQKQWA PQKGR LIVCG HGTLERDGVF CLLSDDHGAS WRYGSGISGI PYGQPKREND FNPDECQPYE LPDGSVVINA RNQNNYHCRC RIVLRSYDAC DTLRPRDVT F DPELVDPVVA AGAVATSSGI IFFSNPAHPE FRVNLTLRWS FSNGTSWRKE TVQIWPGPSG YSSLATLEGS VGGEDQAPQL YVLYEKGRNR YTESISLAKV SVYGTL
<b>Source</b>	Mammalian cell
<b>Target Names</b>	NEU1
<b>Protein Names</b>	Recommended name: Sialidase-1 EC= 3.2.1.18 Alternative name(s): Acetylneuraminyl hydrolase Lysosomal sialidase N-acetyl-alpha-neuraminidase 1
<b>Expression Region</b>	49-416
<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.
<b>Shelf Life</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.