Sialidase-1 (NEU1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Sialidase-1 (Neu1), Recombinant Protein
Full Product Name	Recombinant Rat Sialidase-1 (Neu1)
Product Gene Name	Neu1 recombinant protein
Product Synonym Gene Name	Neu1
Sequence	RTEDDFSLVQ PLVTMEQLLW VSGKQIGSVD TFRIPLITAT PRGTLLAFAE ARKKSASDEG AKFIAMRRST DQGSTWSSTA FIVDDGEASD GLNLGAVVND VDTGVVFLIY TLCAHKVNCQ VASTMLVWSK DDGVSWSPPR NLSVDIGTEM FAPGPGSGIQ KQREPWKGRL IVCGHGTLER DGVFCLLSDD HGASWHYGTG VSGIPFGQPK HDHDFNPDEC QPYELPDGSV IINARNQNNY HCRCRIVLRS YDACDTLRPR DVTFDPELVD PVVAAGALAT SSGIVFFSNP AHPEYRVNLT LRWSFSNGTF WQKERVQLWP GPSGYSSLTA LENSTDGKKQ PPQLFVLYEK GLNRYTESIS MVKISVYGTL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	44,695 Da
Sequence Positions	40-409, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q99PW3
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Neu1 recombinant protein	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.
Other Notes	Small volumes of Neu1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Neu1 purchase	MBS1325138 is a recombinant protein targeting Neu1. Also known as Recombinant Rat Sialidase-1 (Neu1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Neu1. It may not necessarily be applicable to this product.

NCBI GI #	17367382

NCBI GeneID	24591
NCBI Accession #	Q99PW3.1
UniProt Primary Accession #	Q99PW3
UniProt Related Accession #	Q99PW3
NCBI Official Full Name	Sialidase-1
NCBI Official Synonym Full Names	neuraminidase 1
NCBI Official Symbol	Neu1
UniProt Protein Name	Sialidase-1
UniProt Synonym Protein Names	Lysosomal sialidase; N-acetyl-alpha-neuraminidase 1
Protein Family	Sialidase
UniProt Gene Name	Neu1
NCBI Protein Information	sialidase-1
NCBI Summary for Neu1	enzyme that cleaves sialic acid from glycoproteins and glycolipids [RGD, Feb 2006]
UniProt Comments for Neu1	Catalyzes the removal of sialic acid (N-acetylneuraminic acid) moities from glycoproteins and glycolipids. To be active, it is strictly dependent on its presence in the multienzyme complex. Appears to have a preference for alpha 2-3 and alpha 2-6 sialyl linkage.
Research Articles on Neu1	**1.** study concludes that activated microglia release Gal-3 and a neuraminidase that desialylates microglial and PC12 surfaces, enabling Gal-3 binding to PC12 (neuron-like) cells and their phagocytosis via Mer tyrosine kinase (MerTK).
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