

Neuraminidase (NEU) Active Protein | NEU active protein

Active Neuraminidase (NEU)

CATALOG # AAA148147	REACTIVITY Human	APPLICATIONS Activity Assay, Cell Culture
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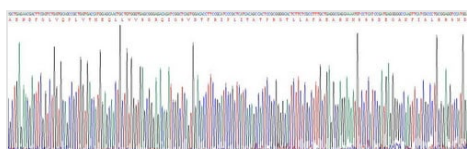
PRODUCT SYNONYMS

Neuraminidase (NEU); Active Neuraminidase (NEU); NEU1; SIAL1; Sialidase 1; Lysosomal Sialidase; Acetylneuraminyl hydrolase; G9 sialidase; N-acetyl-alpha-neuraminidase 1; NEU active protein

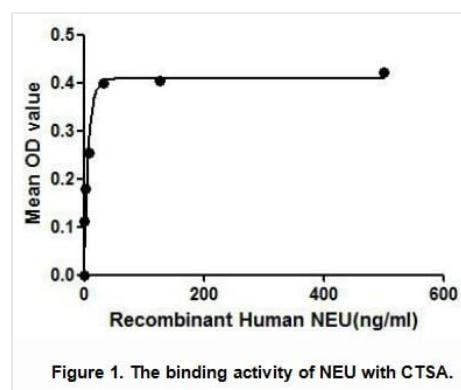
PRODUCT SPECIFICATIONS

Reactivity	Human
Purity/Purification	> 97%
Form/Format	Freeze-dried powder
Sequence Length	415
Applicable Applications for NEU active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Ala47~Leu415
Isoelectric Point	5.3

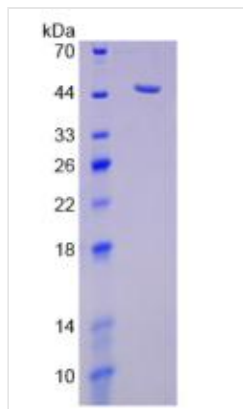
IMAGES



Application Data



Application Data



SDS-PAGE

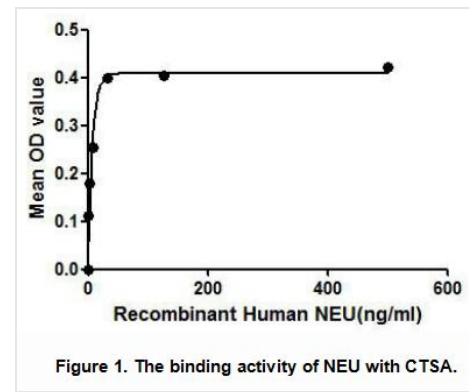


Figure 1. The binding activity of NEU with CTSA.

Activity

NEU (Sialidase-1) is an enzyme that catalyzes the removal of sialic acid (N-acetylneuraminic acid) moieties from glycoproteins and glycolipids. In the lysosome, this enzyme is part of a heterotrimeric complex together with beta-galactosidase and cathepsin A (CTSA). Thus a binding ELISA assay was conducted to detect the interaction of recombinant human NEU and recombinant human CTSA. Briefly, NEU were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to CTSA-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-NEU pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of NEU and CTSA was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for NEU active protein

Enzyme & Kinase; Tumor immunity; Infection immunity; Neuroscience

NCBI AND UNIPROT INFORMATION

UniProt Accession #	Q99519
Molecular Weight	Predicted Molecular Weight: 45.0kDa Accurate Molecular Weight: 46kDa
UniProt Protein Name	Sialidase-1
UniProt Gene Name	NEU1
UniProt Synonym Gene Names	NANH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-active-protein/neuraminidase-neu/148147>