

NEU1, 48-415aa, Human, His tag, E.coli

Cat.NO.: TP03143

3th Edition

Synonyms:Sialidase 1 (lysosomal sialidase), NANH, NEU, SIAL1.

Description:NEU1 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 betagalactosidase and cathepsin A. Mutations in this gene can lead to sialidosis, a lysosomal storage disease that can be type 1 (cherry red -myoclonus syndrome or normosomatic type), which is late-onset, or type 2 (the dysmorphic type), which occurs at an earlier age with increased severity.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Molecular Weight:42.9 kDa (393aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSHMENDFGLVQPLVTMEQLLWVSGRQIGSVDTFRILITATPRGTLAFAEAR
KMSSSDEGAKFIALRRSMDQGSTWSPTAFIVNDGDVPDGLNLGAVVSDVETGVVFLFYSLCAHKAGCQVASTMLV
WSKDDGVSWSTPRNLSLDIGTEVFAPGPGSGIQKQREPRKGRRLIVCGHGTLELDGVFCLLSDDHGASWRYGSGV
SGIPYGQPKQENDFNPDECQPYELPDGSSVINARNQNNYHCHCRIVLRSYDACDTLRPRDVTDFPELVDPVVAAG
AVVTSSGIVFFSNPAHPEFRVNLTLRWSFSNGTSWRKETVQLWPGPSGYSSLATLEGSMDGEEQAPQLYVLYEKG
RNHYTESISVAKISVYGTL

Purity:> 95% by HPLC

Concentration:0.25 mg/ml

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.