Recombinant Human NEU1 Protein, His-tagged

Cat. No. NEU1-323H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NEU1 Protein is produced by E. coli expression system. This protein is fused with a His tag.
Species	Human
Source	E.coli
ProteinLength	48-415 aa
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 beta-galactosidase 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. Recombinant human NEu1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol,1mM DTT.
Molecular Mass	42.9 kDa
AA Sequence	GSSHHHHHH SSGLVPRGSH MGSHMENDFG LVQPLVTMEQ LLWVSGRQIG SVDTFRIPLI TATPRGTLLA FAEARKMSSS DEGAKFIALR RSMDQGSTWS

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	PTAFIVNDGD VPDGLNLGAV VSDVETGVVF LFYSLCAHKA GCQVASTMLV WSKDDGVSWS TPRNLSLDIG TEVFAPGPGS GIQKQREPRK GRLIVCGHGT LERDGVFCLL SDDHGASWRY GSGVSGIPYG QPKQENDFNPDECQPYELPD GSVVINARNQ NNYHCHCRIV LRSYDACDTL RPRDVTFDPE LVDPVVAAGA VVTSSGIVFF SNPAHPEFRV NLTLRWSFSN GTSWRKETVQ LWPGPSGYSS LATLEGSMDG EEQAPQLYVL YEKGRNHYTE SISVAKISVY GTL
Purity	> 85% by SDS - PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 centigrade to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	NEU1 sialidase 1 (lysosomal sialidase) [Homo sapiens]
Official Symbol	NEU1
Synonyms	NEU1; sialidase 1 (lysosomal sialidase); NEU; sialidase-1; G9 sialidase; NANH; SIAL1; FLJ93471;
Gene ID	4758
mRNA Refseq	NM_000434

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Protein Refseq	NP_000425
MIM	608272
UniProt ID	Q99519
	3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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