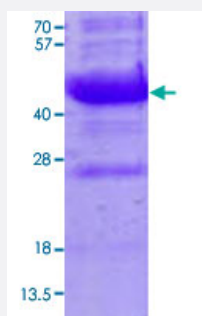


NEU1 (Human) Recombinant Protein

Catalog # P5860 Size 100 ug

Applications



Specification

Product Description	Human NEU1 (NP_000425, 48 a.a. - 415 a.a.) partial recombinant protein with His tag expressed in <i>Escherichia coli</i> .
Sequence	GSSHHHHHHSSGLVPRGSHMGSHMENDFGLVQPLVTMEQLLWVSGRQIGSVDTFRIPILITATPRG TLLAF AEARKMSSSDEGAKFIALRRSMDQGSTWSPTAFVNDGDVPDGLNLGAVVSDVETGVVF LFYSLCAHKAGCQVASTMLVWSKDDGVSWSTPRNLSLDIGTEVFAPGPGSGIQKQREPRKGRLI VCGHGTLERDGVFCLLSDDHGASWRYGSGVSGIPYGQPKQENDFNPDECQPYELPDGSSVINA RNQNNYHCHCRVLRSYDACDTLRPRDVTDFPELVDPVVAAGAVVTSSGIVFFSNPAHPEFRVNL TLRWSFSNGTSWRKETVQLWPGPSGYSSLATLEGSM DGEEQAPQLVLYEKG RNNHYTESISVAKI SVYGT L
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	42.9
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 85% by SDS - PAGE
Quality Control Testing	3 ug/lane in 15% SDS-PAGE Stained with Coomassie Blue. Due to the protein nature, dimmers and multimers may be observed.
Storage Buffer	In 20 mM Tris-HCl buffer, 0.15 M NaCl, pH 8.0 (10% glycerol, 1 mM DTT).

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — NEU1

Entrez GeneID [4758](#)

Gene Name NEU1

Gene Alias FLJ93471, NANH, NEU, SIAL1

Gene Description sialidase 1 (lysosomal sialidase)

Omim ID [256550 608272](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a lysosomal enzyme that cleaves terminal sialic acid residue s 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. [provided by RefSeq]

Other Designations G9 sialidase|N-acetyl-alpha-neuraminidase 1|OTTHUMP00000029419|acetylneuraminyl hydrolase|exo-alpha-sialidase|lysosomal sialidase|neuraminidase

Pathway

- [Lysosome](#)
- [Other glycan degradation](#)
- [Sphingolipid metabolism](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Lupus Erythematosus](#)