

# Product information

**NPL, 1-320 aa**

**Human, His-tagged, Recombinant, *E.coli***

**Cat. No. IBATGP1028**

**Full name:** N-acetylneuraminate lyase

**NCBI Accession No.:** NP\_110396

**Synonyms:** c112, C1orf13, DHDPS1, MGC149582, MGC61869, NPL1

**Description:** NPL, also known as N-acetylneuraminate lyase, is an enzyme that catalyzes the chemical reaction. (N-acetylneuraminate → N-acetyl-D-mannosamine + pyruvate) This protein belongs to the family of lyases, specifically the oxo-acid-lyases, which cleave carbon-carbon bonds. It participates in amino sugars metabolism. Recombinant human NPL protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography.

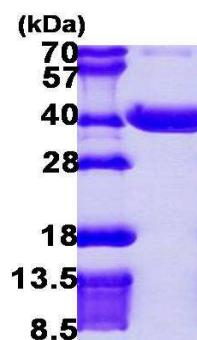
**Form:** Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol

0.1M NaCl, 1mM DTT

**Molecular Weight:** 37.3 kDa (340aa) confirmed by MALDI-TOF

**Purity:** > 95% by SDS - PAGE

**Concentration:** 1.0 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

**Sequences of amino acids:**

MGSSHHHHH SSGLVPRGSH MAFPKKKLQG LVAATITPMT ENGEINFSVI QQYVDYLVE QGVKNIFVNG TTGEGLSLSV SERRQVAEEW  
VTGKDKLDQ VIIHVGALSL KESQELAQHA AEIGADGIIV IAPFFLKPTW KDILINFLKE VAAAAPALPF YYYHIPALTG VKIRAEELLD  
GILDKIPTFQ GLKFSDTDL DFGQCVDQNR QQQFAFLFGV DEQLLSALVM GATGAVGSTY NYLGKKTQNM LEAFEQKDFS LALNYQFCIQ  
RFINVVKLG FGVSQTKAIM TLVSGIPMGP PRLPLQKASR EFTDSAEAKL KSLDFLSFTD LKDGNNLEAGS

**General references:**

Schauer R. *et al.* (1982) *Adv Carbohydr Chem Biochem.* 40:131-234.

COMB DG. *et al.* (1960) *J Biol Chem.* 235:2529-2537

**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



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