

Recombinant Human NPL, His-tagged

Cat. No. NPL-981H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NPL protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography(1-320aa).
Species	Human
Source	E.coli
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.
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)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAFPKKKLQG LVAATITPMT ENGEINFSVI GQYVDYLVKE QGVKNIFVNG TTGEGLSLSV SERRQVAEEWVTKGDKLDQ VIIHVGALSL KESQELAQHA AEIGADGIAV IAPFFLKPWD KDILINFLKE VAAAAPALPF YYYHIPALTG VKIRAEELLDGILDKIPTFQ GLKFSDTDLL DFGQCVDQNR QQQFAFLFGV DEQLLSALVM GATGAVGSTY NYLGKKTNQM

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LEAFEQKDFS LALNYQFCIQRFINFWVVLG FGVSTKAIM TLVSGIPMGP
PRLPLQKASR EFTDSAEAKL KSLDFLSFTD LKDGNNLEAGS

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.

GENE INFORMATION
Gene Name

NPL N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) [Homo sapiens]

Synonyms

NPL; NAL; C112; NPL1; C1orf13; MGC61869; MGC149582; N-acetylneuraminate lyase; NALase; OTTHUMP00000033259; OTTHUMP00000033260; sialic acid aldolase; sialate-pyruvate lyase; N-acetylneuraminic acid aldolase; dihydrodipicolinate synthetase homolog 1; NP_110396.1; EC 4.1.3.3

Gene ID

80896

mRNA Refseq

NM_030769

Protein Refseq

NP_110396

MIM

611412

UniProt ID

Q9BXD5

**Chromosome
Location**

1q25

Function

N-acetylneuraminate lyase activity; lyase activity

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