Recombinant human NPL protein

Catalog Number: ATGP1028

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-320aa

UniProt No.
Q9BXD5

NCBI Accession No.
NP_110396

Alternative Names
N-acetylneuraminate lyase, c112, C1orf13, DHDPS1, MGC149582, MGC61869, NPL1

PRODUCT SPECIFICATION

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

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl,1mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

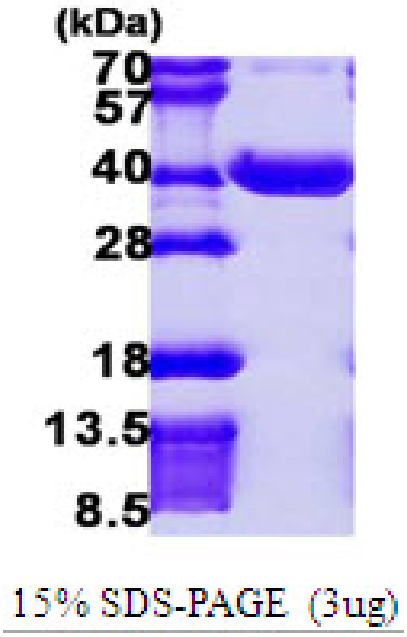
MGSSHHHHHH SSGLVPRGSH MAFPKKKLQG LVAATITPMT ENGEINFSVI GQYVDYLVKE QGVKNIFVNG TTGEGLSLSV SERRQVAEEW VTKGKDKLDQ VIIHVGALSL KESQELAQHA AEIGADGIAV IAPFFLKPWT KDILINFLKE VAAAAPALPF YYYHIPALTG VKIRAEELLD GILDKIPTFQ GLKFSDTDLL DFGQCVDQNR QQQFAFLFGV DEQLLSALVM GATGAVGSTY NYLGKKTNQM LEAFEQKDFS LALNYQFCIQ RFINFVVKLG FGVSQTKAIM TLVSGIPMGP PRLPLQKASR EFTDSAEAKL KSLDFLSFTD LKDGNLEAGS

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.