

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, DHGPS1, 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

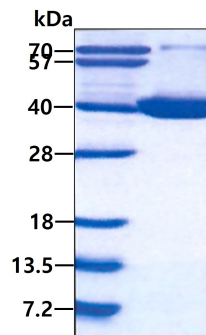
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VAAAAPALPF YYYHIPALTG VKIRAEELLD GILDKIPTFQ GLKFSDTDLL DFGQCVDQNR QQQFAFLFGV DEQLLSALVM
GATGAVGSTY NYLGKKTNQM LEAFEQKDFS LALNYQFCIQ RFINFVVKLG FGVSQTKAIM TLVSGIPMGP PRLPLQKASR
EFTDSAEAKL KSLDFLSFTD LKDGNLEAGS

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



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