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## Recombinant human HDHD4/NANP protein

Catalog Number: ATGP0741

### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-248aa

#### **UniProt No.**

O8TBE9

## **NCBI Accession No.**

NP 689880

#### **Alternative Names**

Neu5Ac-9-Pase, N-acylneuraminate-9-phosphatase, N-acetylneuraminic acid phosphatase, HDHD4, Haloacid dehalogenase-like hydrolase domain containing 4, C20orf147

#### PRODUCT SPECIFICATION

## **Molecular Weight**

31.9 kDa (284aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl

#### **Purity**

> 90% 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**

NANP (N-acylneuraminate-9-phosphatase), also known as HDHD4 (Haloacid dehalogenase-like hydrolase domain-containing protein 4), is belongs to the haloacid dehalogenase (HAD) family and is responsible for dephosphorylating N-acylneuraminate 9-phosphate to form N-acylneuraminate (N-acylneuraminate 9-phosphate + H2O = N-acylneuraminate + phosphate). Characteristic of the HAD phosphatase family, the catalytic activity of NANP is dependent upon the presence of magnesium and is inhibited by vanadate and calcium. Recombinant



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human NANP protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

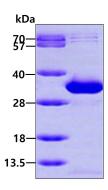
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MGLS RVRAVFFDLD NTLIDTAGAS RRGMLEVIKL LQSKYHYKEE AEIICDKVQV KLSKECFHPY NTCITDLRTS HWEEAIQETK GGAANRKLAE ECYFLWKSTR LQHMTLAEDV KAMLTELRKE VRLLLLTNGD RQTQREKIEA CACQSYFDAV VVGGEQREEK PAPSIFYYCC NLLGVQPGDC VMVGDTLETD IQGGLNAGLK ATVWINKNGI VPLKSSPVPH YMVSSVLELP ALLQSIDCKV SMST

#### **General References**

Hao J., et al. (2006) Biochem J. 397: 195-201. Maliekal P., et al. (2006) Glycobiology. 16:165-172

## **DATA**

#### **SDS-PAGE**



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

