

Recombinant human HDHD4/NANP protein

Catalog Number: ATGP0741

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-248aa

UniProt No.

Q8TBE9

NCBI Accession No.

NP_689880

Alternative Names

Neu5Ac-9-Pase, N-acetylneuraminate-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-acetylneuraminate-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-acetylneuraminate 9-phosphate to form N-acetylneuraminate (N-acetylneuraminate 9-phosphate + H₂O = N-acetylneuraminate + 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

Recombinant human HDHD4/NANP protein

Catalog Number: ATGP0741

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 KDRWGSMGLS RVRVFFDLD NTLIDTAGAS RRGMLEVIKL
LQSKYHYKEE AEIICDKVQV KLSKECFHPY NTCITDLRTS HWEEAIQETK GGAANRKLAE ECYFLWKSTR LQHMTLAEDV
KAMLTRELK VRLLLLTNGD RQTQREKIEA CACQSYFDAV VVGGEQREEK PAPSIFYYCC NLLGVQPGDC VMVGDTLETD
IQGGLNAGLK ATVWINKNGI VPLKSSPVPY YMVSSVLELP ALLQSIDCKV SMST

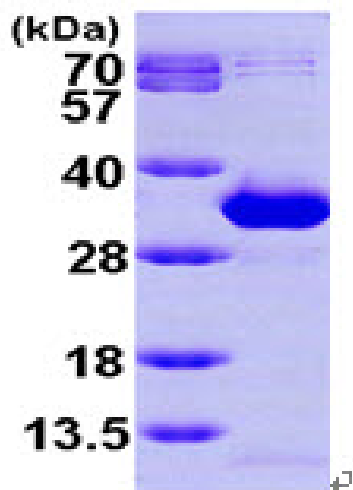
General References

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.

15% SDS-PAGE (3ug)