

Recombinant Human N-acetylneuraminic Acid Phosphatase, His-tagged

Cat. No. NANP-2825H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human NANP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 31.9kDa (284aa), confirmed by MALDI-TOF.

Species Human


Source E.coli

Description NANP (N-acylneuraminase-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-acylneuraminase 9-phosphate to form N-acylneuraminase (N-acylneuraminase 9-phosphate + H₂O = N-acylneuraminase + 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.

Sequences Of Amino Acids MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMGLS RVRAVFFDLD
 NTLIDTAGAS RRGMLEVIKL LQSKYHYKKE AEIICDKVQV KLSKECFHPY
 NTCITDLRTS HWEEAIQETK GGAANRKLAE ECFYFLWKSTR LQHMTLAEDV
 KAMLTELRKE VRLLLLNTNGD RQTQREKIEA CACQSYFQDAV VVGGEQREEK
 PAPSIFYCC NLLGVQPGDC VMVGDITLETD IQGGLNAGLK ATVWINKNGI
 VPLKSSPVPY YMVSSVLELP ALLQSIDCKV SMST

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Purity	> 90% by SDS – PAGE.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl.
Concentration	0.5mg/ml (determined by Bradford assay).
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	NANP N-acetylneuraminic acid phosphatase [Homo sapiens]
Synonyms	NANP; N-acetylneuraminic acid phosphatase; HDHD4; MGC26833; C20orf147; dJ694B14.3; N-acylneuraminate-9-phosphatase; Neu5Ac-9-Pase; haloacid dehalogenase-like hydrolase domain containing 4; haloacid dehalogenase-like hydrolase domain-containing protein 4; EC 3.1.3.29; chromosome 20 open reading frame 147
Gene ID	140838
mRNA Refseq	NM_152667
Protein Refseq	NP_689880
MIM	610763
UniProt ID	Q8TBE9
Chromosome	20p11.1

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Location

Pathway


Amino sugar and nucleotide sugar metabolism; Metabolic pathways

Function

N-acylneuraminate-9-phosphatase activity; hydrolase activity; phosphoglycolate phosphatase activity

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