

Product information



NANP, 1-248aa

Human, His-tagged, Recombinant, *E.coli*

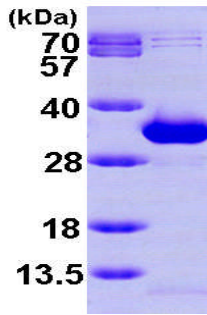
Cat. No. IBATGP0741

Full name: N-acylneuraminase-9-phosphatase

NCBI Accession No.: NP_689880

Synonyms: HDHD4, C20orf147, Neu5Ac-9-Pase

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

<p>Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl</p> <p>Molecular Weight: 31.9kDa (284aa), confirmed by MALDI-TOF</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 0.5mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p>MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMLG RVRVFFDLD NTLIDTAGAS RRGMLEVIKL LQSKYHYKKE AEIICDKVQV KLSKECFHPY NTCITDLRST HWEEAIQETK GGAANRKLAE ECFYFLWKSTR LQHMTLAEDV KAMLTCLRKE VRLLLLTNGD RQTQREKIEA CACQSYFDAV VVGGEQREEK PAPSIFYYCC NLLGVQPGDC VMVGDITLETD IQGGLNAGLK ATVWINKNGI VPLKSSPVPH YMVSSVLELP ALLQSIDCKV SMST</p>	

General references:

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Hao J., *et al.* (2006) *Biochem J.* 397: 195-201.

Maliekal P., *et al.* (2006) *Glycobiology.* 16:165-172

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.

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