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NANP Human

Catalog #:ENPS-016

For research use only.

Description:NANP Human Recombinant fused with a 36 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 284 amino acids (1-248 a.a.) and having a molecular mass of 31.9kDa. The NANP is purified by proprietary chromatographic techniques.

Synonyms:N-acylneuraminate-9-phosphatase, Haloacid dehalogenase-like hydrolase domain-containing protein 4, Neu5Ac-9-Pase, NANP, HDHD4, MGC26833, C20orf147, dJ694B14.3.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMGLS RVRAVFFDLD NTLIDTAGAS RRGMLEVIKL LQSKYHYKEE AEIICDKVQV KLSKECFHPY NTCITDLRTS HWEEAIQETK GGAANRKLAE ECYFLWKSTR LQHMTLAEDV KAMLTELRKE VRLLLLTNGD RQTQREKIEA CACQSYFDAV VVGGEQREEK PAPSIFYYCC NLLGVQPGDC VMVGDTLETD IQ

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
The NANP solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT and 100mM NaCl.

Stability:
NANP should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
N-acylneuraminate-9-phosphatase (NANP) 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). The catalytic activity of NANP is relies on the presence of magnesium and is inhibited by vanadate and calcium, which is typical of the HAD phosphatase family.

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