
Product Data Sheet

Product Name: NANP Human
 Cat. No.: GP21973
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	N-acylneuraminate-9-phosphatase; Haloacid dehalogenase-like hydrolase domain-containing protein 4; Neu5Ac-9-Pase; NANP; HDHD4; MGC26833; C20orf147; dj694B14.3.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMLGS RVRAVFFDLN NTLIDTAGAS RRGMLEVIKL LQSKYHYKEE AEIICDKVQV KLSKECFHPY NTCITDLRTS HWEEAIQETK GGAANRKLAE ECYFLWKSTR LQHMTLAEDV KAMLTCLRKE VRLLLLTNGD RQTQREKIEA CACQSYFDAV VVGGEQREEK PAPSIFYCC NLLGVQPGDC VMVGDITLET IQGGLNAGLK ATWINKNGI VPLKSSPVPH YMVSSVLELP ALLQSIDCKV SMST.		
Formulation	The NANP solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT and 100mM NaCl.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NANP Human Recombinant fused with a 36 amino acid His tag at N-terminus produced

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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