

NANP, 1-248aa, Human, His tag, E.coli

Cat.NO.: TP03090

3th Edition

Synonyms:N-acylneuraminate-9-phosphatase, HDHD4, C20orf147, Neu5Ac-9-Pase

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

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl

Molecular Weight:31.9kDa (284aa), confirmed by MALDI-TOF

Sequences:

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMLSRVRAVFFDLNLTIDTAGASRRGMLEVIKLLQS
KYHYKEEAEIICDKVQVKLSKECFHPYNTCITDLRTSHWEEAIQETKGGGAANRKLAEECYFLWKSTRLQHMTLAEDV
KAMLTELKKEVRLLLLTNGDRQTQREKIEACACQSYFDAVVVGGEQREEKPAPSIFYCCNLLGVQPGDCVMVGD
TLETDIQGGGLNAGLKATVWINKNGIVPLKSSPVPHYMVSSVLELPALLQSIDCKVSMST

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.