Recombinant E.coli NanA, His-tagged

Cat. No. nanA-983E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.colinanA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography(1-297aa).
Species	E.coli
Source	E.coli
Description	NanA, also known as N-acetylneuraminatelyase, belongs to the family of lyases, specifically the oxo-acid-lyases, which cleave carbon-carbon bonds. NanA catalyzes the cleavage of N-acetylneuraminic acid (sialic acid) to form pyruvate and N-acetyl-D-mannosamine. This protein was inhibited by reduction with NaBH4 in the presence of the substrate, indicating that it belongs to the Schiff-base-forming Class Ialdolases. NanA was strongly inhibited by Cu2+ ions, p-chloromercuribenzoate and N-bromosuccinimide, and also inhibited competitively by the reaction product, pyruvate, and its structurally related compounds, dihydroxyacetone and DL-glyceraldehyde.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol
Molecular Weight	34.7 kDa (317aa) confirmed by MALDI-TOF
Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH MATNLRGVMA ALLTPFDQQQ ALDKASLRRL

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acids	VQFNIQQGID GLYVGGSTGE AFVQSLSERE QVLEIVAEEAKGKIKLIAHV GCVSTAESQQ LAASAKRYGF DAVSAVTPFY YPFSFEEHCD HYRAIIDSAD GLPMVVYNIP ALSGVKLTLD QINTLVTLPGVGALKQTSGD LYQMEQIRRE HPDLVLYNGY DEIFASGLLA GADGGIGSTY NIMGWRYQGI VKALKEGDIQ TAQKLQTECN KVIDLLIKTGVFRGLKTVLH YMDVVSVPLC RKPFGPVDEK YLPELKALAQ QLMQERG
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	nanA N-acetylneuraminate lyase [Escherichia coli str. K-12 substr. MG1655]
Synonyms	nanA, ECK3214; JW3194; npl; N-acetylneuraminatelyase; NP_417692.1; EC 4.1.3.3; N-acetylneuraminatelyase (aldolase); catabolism of sialic acid; not K-12?
Gene ID	947742
Protein Refseq	NP_417692

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