

**nanA, 1-297aa, E.coli, His tag, E.coli**

**Cat.NO.: TP03086**

---

3th Edition

**Synonyms:**N-acetylneuraminate lyase, npl

**Description:**NanA, also known as N-acetylneuraminate lyase, belongs to the family of lyases, specifically the oxoacid- 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 NaBH<sub>4</sub> in the presence of the substrate, indicating that it belongs to the Schiff-base-forming Class I aldolases.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol

**Molecular Weight:**34.7 kDa (317aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMATNLRGVMAALLTPFDQQQALDKASLRRLVQFNIQQGIDGLYVGGSTGEAFVQ  
SLSEREQVLEIVAAEEAKGKIKLIAHVGCVSTAESQQLAASAKRYGFDVAVTVPFYYPFSFEEHCDHYRAIIDSADGL  
PMVVYNIPALSGVKLTLDQINTLVTLPGVVGALKQTSGLYQMEQIRREHPDLVLYNGYDEIFASGLLAGADGGIGSTY  
NIMGWRYQGIVKALKEGDIQTAQKLQTECNKVIDLLIKTGVFRGLKTVLHYMDVVSVP LCRKPFPGPVDEKYLPELKAL  
AQQLMQERG

**Purity:**> 95% by HPLC

**Concentration:**1 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.