## 32-2580: NANA Recombinant Protein

# Alternative Name N -acetylneuraminate lyase,N-acetylneuraminate pyruvate-lyase,N-acetylneuraminic acid 

 : aldolase,NALase,Sialate lyase,Sialic acid aldolase,Sialic acid lyase,nanA,npl,b3225,JW3194.
## Description

Source : Escherichia Coli. NANA produced in E.Coli is a single, non-glycosylated polypeptide chain containing 317 amino acids (1-297 a.a.) and having a molecular mass of 34.7 kDa . NANA is fused to a 20 amino acid His-tag at N-terminus \& purified by proprietary chromatographic techniques. N -acetylneuraminate lyase (NanA) is a member of a 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. NanA is inhibited by reduction with NaBH4 in the presence of the substrate, which indicates that it belongs to the Schiff-base-forming Class I aldolases. NanA is strongly inhibited by Cu2+ ions, pchloromercuribenzoate and N -bromosuccinimide, it is also inhibited competitively by the reaction product, pyruvate, and its structurally related compounds, dihydroxyacetone and DL-glyceraldehyde.

## Product Info

| Amount : | $20 \mu \mathrm{~g}$ |
| :---: | :---: |
| Purification : | Greater than 95\% as determined by SDS-PAGE. |
| Content : | The NANA protein solution ( $1 \mathrm{mg} / \mathrm{ml}$ ) 20 mM Tris-HCl buffer ( $\mathrm{pH8} .0$ ) and $20 \%$ glycerol. |
| Storage condition : | NANA E.Coli Recombinant although stable at $4^{\circ} \mathrm{C}$ for 1 week, should be stored below $-18^{\circ} \mathrm{C}$. Please prevent freeze thaw cycles. |
| Amino Acid : | MGSSHHHHHH SSGLVPRGSH MATNLRGVMA ALLTPFDQQQ ALDKASLRRL VQFNIQQGID |
|  | GLYVGGSTGE AFVQSLSERE QVLEIVAEEA KGKIKLIAHV GCVSTAESQQ LAASAKRYGF DAVSAVTPFY |
|  | YPFSFEEHCD HYRAIIDSAD GLPMVVYNIP ALSGVKLTLD QINTLVTLPGVGALKQTSGD LYQMEQIRRE |
|  | HPDLVLYNGY DEIFASGLLA GADGGIGSTY NIMGWRYQGI VKALKEGDIQ TAQKLQTECN KVIDLLIKTG |
|  | VFRGLKTVLH YMDVVSVPLC RKPFGPVDEK YLPELKALAQ QLMQERG. |



