

## 32-2582: NANS Recombinant Protein

**Alternative Name :** Sialic acid synthase,N-acetylneuraminase synthase,N-acetylneuraminase-9-phosphate synthase,N-acetylneuraminic acid phosphate synthase,N-acetylneuraminic acid synthase,NANS,SAS.

### Description

Source : Escherichia Coli. NANS Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 379 amino acids (1-359 a.a.) and having a molecular mass of 42.4kDa. The NANS is purified by proprietary chromatographic techniques. NANS is a 359 amino acid protein that contains one AFP (antifreeze proteins)-like domain and functions in the biosynthesis of sialic acids. The ubiquitously expressed NANS enzymatically catalyzes the H<sub>2</sub>O-dependent formation of N-acetylneuraminic acid (Neu5Ac) and 2-keto-3-deoxy-D-glycero-D-galacto-nononic acid (KDN), both of which are sialic acids. NANS uses N-acetylmannosamine 6-phosphate as a substrate for Neu5Ac synthesis and mannose 6-phosphate as a substrate for KDN synthesis.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** The NANS solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.1M NaCl, 1mM DTT and 10% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MPLELELCPG RWVGGQHPCF IAEIGQNHQ GDLDVAKRMI  
RMAKECGADC AKFQKSELEF KFNKALERP YTSKHSWGKT YGEHKRHLEF SHDQYRELQR YAEVGIFFT  
ASGMDEMAVE FLHELNVFFF KVGSGDTNNF PYLEKTAKKG RPMVISGMQ SMDTMKQVYQ IVKPLNPNFC  
FLQCTSAYPL QPEDVNLRFI SEYQKLFPI PIGYSGHETG IAISVAVAL GAKVLERHIT LDKTWKGS DH  
SASLEPGELA ELVRSVRLVE RALGSPTKQL LPCEMACNEK LGKSVVAKVK IPEGTILTM DMLTVKVGEPK  
GYPPEDIFNL VGKKVLVTVE EDDTIMEELV DNHGKKIKS.

