32-2582: NANS Recombinant Protein

Alternative Name :	Sialic acid synthase,N-acetylneuraminate synthase,N-acetylneuraminate-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_2O-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 IIAEIGQNHQ GDLDVAKRMI RMAKECGADC AKFQKSELEF KFNRKALERP YTSKHSWGKT YGEHKRHLEF SHDQYRELQR YAEEVGIFFT ASGMDEMAVE FLHELNVPFF KVGSGDTNNF PYLEKTAKKG RPMVISSGMQ SMDTMKQVYQ IVKPLNPNFC FLQCTSAYPL QPEDVNLRVI SEYQKLFPDI PIGYSGHETG IAISVAAVAL GAKVLERHIT LDKTWKGSDH SASLEPGELA ELVRSVRLVE RALGSPTKQL LPCEMACNEK LGKSVVAKVK IPEGTILTMD MLTVKVGEPK GYPPEDIFNL VGKKVLVTVE EDDTIMEELV DNHGKKIKS.