

NANS Human

Description: 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.

Catalog #:ENPS-031

For research use only.

Synonyms: Sialic acid synthase, N-acetylneuraminate synthase, N-acetylneuraminate-9-phosphate synthase, N-acetylneuraminic acid phosphate synthase, N-acetylneuraminic acid synthase, NANS, SAS.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MPLELELCPG RWVGGQHPCF
IIAEIGQNHQ GDLDVAKRMI RMAKECGADC AKFQKSELEF KFNKALERP YTSKHSWGKT
YGEHKRHLEF SHDQYRELQR YAEVGIFFT ASGMDEMAVE FLHELNPFF KVGSGDTNNF
PYLEKTAKKG RPMVISSGMQ SMDTMKQVYQ IVKPLNPNFC FLQCTSAYPL QPEDVNLRVI
SEYQKLFDPDI PI

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The NANS solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.1M NaCl, 1mM DTT and 10% glycerol.

Stability:

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

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 H₂O-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.

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