



Recombinant Human Sialic acid synthase (NANS)

Product Code	CSB-MP885699HU
Abbreviation	NANS
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9NR45
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	PLELELCPG RWVGGQHPCF IIAEIGQNHQ GDL DVAKRMI RMAKECGADC AKFQKSELEF KFN RKALERP YTSKHSWGKT YGEHKRHLEF SHDQYRELQR YAEVGIFFT ASGMDEMAVE FLHELNV PFF KVGSGDTNNF PYLEKTAKKG RPMVISSGMQ SMDTMKQVYQ IVKPLNPNFC FLQCTSAYPL QPEDVNL RVI SEYQKLFPDI PIGYSGHETG IAISVAVAL GAKVLERHIT LDKTWKGS DH SASLEPGELA ELVRSVRLVE RALGSPTKQL LPCEMACNEK LGKSVVAKVK IPEGTILTMD MLTVKVGEPK GYPEDIFNL VGKKVLTVE EDDTIMEELV DNHGKKIKS
Source	Mammalian cell
Target Names	NANS
Protein Names	Recommended name: Sialic acid synthase Alternative name(s): N-acetylneuraminase EC= 2.5.1.56 N-acetylneuraminase-9-phosphate synthase EC= 2.5.1.57 N-acetylneuraminic acid phosphate synthase N-acetylneuraminic aci
Expression Region	2-359
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This gene encodes an enzyme that functions in the biosynthetic pathways of sialic acids. In vitro, the encoded protein uses N-acetylmannosamine 6-phosphate and mannose 6-phosphate as substrates to generate phosphorylated forms of N-acetylneuraminic acid (Neu5Ac) and 2-keto-3-deoxy-D-glycero-D-galacto-nononic acid (KDN), respectively; however, it exhibits much higher activity toward the Neu5Ac phosphate product. In insect cells, expression of this gene results in Neu5Ac and KDN production. This gene is related to the E. coli sialic acid synthase gene neuB, and it can partially restore sialic acid synthase activity in an E. coli neuB-negative mutant.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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