Data Sheet (Cat.No.TMPJ-00520)

TargetMol

NANS Protein, Human, Recombinant (His)

General Information

Synonyms:	N-Acetylneuraminic Acid Synthase;N-Acetylneuraminic Acid Phosphate Synthase;N-Acetylneuraminate-9-Phosphate Synthase;SAS;NANS;N-Acetylneuraminate Synthase;Sialic Acid Synthase
Protein Construction:	Met1-Ser359
Species:	Human
Expression Host:	E. coli
Accession:	AAH19315.1
Molecular Weight:	42 KDa (reducing condition)
AA Sequence:	Met1-Ser359

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 80% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, pH 8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Sialic Acid Synthase (NANS) is an enzyme that contains one AFP-like domain. NANS is ubiquitous and plays a role in the biosynthetic pathways of sialic acids. NANS produces N-acetylneuraminic acid (Neu5Ac) and 2-keto-3-deoxy-D-glycero-D-galacto-nononic acid (KDN). It also can use N-acetylmannosamine 6-phosphate and mannose 6-phosphate as substrates to generate phosphorylated forms of Neu5Ac and KDN, respectively.

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