



Recombinant Protein Technical Manual
Recombinant Human NANS/SAS Protein (His Tag)
RPES5126

Product Data:

Product SKU: RPES5126

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q9NR45

Protein Information:

Molecular Mass: 42.4 kDa

AP Molecular Mass: 42 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, 100mM NaCl, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Sialic Acid Synthase; N-Acetylneuraminate Synthase; N-Acetylneuraminate-9-Phosphate Synthase; N-Acetylneuraminic Acid Phosphate Synthase; N-Acetylneuraminic Acid Synthase; NANS; SAS

Immunogen Information:

Sequence: Met 1-Ser359

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.