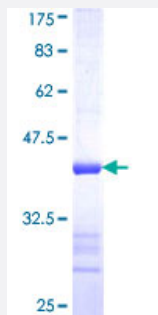


NANS (Human) Recombinant Protein (Q01)

Catalog # H00054187-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human NANS partial ORF (NP_061819, 260 a.a. - 359 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	AELVRSVRLVERALGSPTKQLLPCEMACNEKLGKSVVAKVKIPEGTILTMDMLTVKVGEPKGYPP EDIFNLVGKKVLVTVEEDDTIMEELVDNHGKKIKS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (94); Rat (94)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NANS

Entrez GeneID [54187](#)

GeneBank Accession# [NM_018946](#)

Protein Accession# [NP_061819](#)

Gene Name NANS

Gene Alias SAS

Gene Description N-acetylneuraminic acid synthase

Omim ID [605202](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations N-acetylneuraminic acid phosphate synthase|OTTHUMP00000021769|sialic acid phosphate synthase|sialic acid synthase

Pathway

- [Amino sugar and nucleotide sugar metabolism](#)

- [Metabolic pathways](#)