

## Recombinant Human NANS protein, GST-tagged

**Cat. No.** NANS-287H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human NANS protein(NP_061819)(1-359 aa), fused with GST tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 1-359 aa                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>             | The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> ,17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH7.). 5 % trehalose and 5 % mannitol are added as protectants before lyophilization.                                                                                                                                                       |
| <b>AA Sequence</b>      | MPLELELCPGRWVGGQHPCFIIAEIGQNHQGDLDVAKRMIRMAKECGADCAKFQKS<br>ELEFKFNRKALERPYTSKHSWGKTYGEHKRHLEFSHDQYRELQRYAEEVGIFFTAS<br>GMDEMAVEFLHELNVPPFFKVGSGDTNFPYLEKTAKKGRPMVISSGMQSMDTMKQ<br>VYQIVKPLNPNFCFLQCTSAYPLQPEDVNLRVISEYQKLFPDIPIGYSGHETGIAISVA<br>AVALGAKVLERHITLDTKWGSDHSASLEPGELAEVRSVRLVERALGSPTKQLLPC<br>EMACNEKLGKSVVAKVKIPEGTILTMDMLTVKVGEPKGYPEDIFNLVGKKVLVTVEE<br>DDTIMEELVDNHGKKIKS |
| <b>Purity</b>           | 90%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | Short-term storage: Store at 2-8°C for (1-2 weeks).<br>Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer                                                                                                                                                                                                                                                     |

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containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

**Reconstitution**

Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage.  
Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage.

## GENE INFORMATION

**Gene Name** NANS N-acetylneuraminic acid synthase [ Homo sapiens ]

**Official Symbol** NANS

**Synonyms**

NANS; N-acetylneuraminic acid synthase; sialic acid synthase; SAS; N-acetylneuraminate synthase; sialic acid phosphate synthase; N-acetylneuraminate-9-phosphate synthase; N-acetylneuraminic acid phosphate synthase;

**Gene ID** 54187

**mRNA Refseq** NM\_018946

**Protein Refseq** NP\_061819

**MIM** 605202

**UniProt ID** Q9NR45

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