

## Product Datasheet

# Recombinant *Lactococcus lactis* subsp. *lactis* Nisin biosynthesis sensor protein nisK(nisK) (orb2924771)

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog Number</b>       | orb2924771                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Category</b>             | Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>          | This Recombinant <i>Lactococcus lactis</i> subsp. <i>lactis</i> Nisin biosynthesis sensor protein nisK(nisK) spans the amino acid sequence from region 1-447.                                                                                                                                                                                                                                                                                                                         |
| <b>Form/Appearance</b>      | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Buffer/Preservatives</b> | Tris/PBS-based buffer, 6% Trehalose, pH 8.0                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Reconstitution</b>       | 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.                                                                           |
| <b>Protein Sequence</b>     | MGKKYSMRRRIWQAVIEIIIGTCLLILLGLTFFLRQIGQISGSETIRLSLSDSNLTIS<br>DIERDMKHYPDYIIFDNDTSKILGGHYVKSDVPSFVASKQSSHNITEGEITYTYSSNKH<br>FSVVLQRQNSMPEFTNHTLRISYNQFTYLFFFLGEIILIFSVYHLIREFSKNFQAVQKI<br>ALKMGEITTFPEQEESKIIIEFDQVLNNLYSKSKELAFIEAERHEKHDLSFQVAALSHDV<br>KTPLTVLKGNIELLEMTEVNEQQADFIESMKNSLTVFDKYFNTMISYTKLLNDENDYKAT<br>ISLEDFLIDLSVELEELSTTYQVDYQLVKKTDLTTFYGNLALSRALINIFVNACQYAKE<br>GEKIVSLSIYDDEKYLFEIWNNGHPFSEQAKKNAGKLFFTEDTGRSGKHYGIGLSFAQG<br>VALKHQGNLILSNPQKGGAEVILKIKK |
| <b>Protein Length</b>       | full length protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>           | <b>P42707</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Biological Origin</b>    | <i>Lactococcus lactis</i> subsp. <i>lactis</i> ( <i>Streptococcus lactis</i> )                                                                                                                                                                                                                                                                                                                                                                                                        |

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**Expression Region** 1-447

**Storage** Storage Condition: Store at -20°C upon receipt, aliquoting is necessary for multiple use. Avoid repeated freeze-thaw cycles. Shelf Life: 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. Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week

**Note** For research use only

**Expiration Date** 6 months from date of receipt.

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