

## Native Bovine INS

**Cat. No.** INS-512D    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Bovine insulin, a polypeptide hormone, is obtained from beef pancreas and purified from an ethanol/phosphoric acid extra.                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Bovine                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Beef Pancreas                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | Like that of human insulin, it is the principal hormone responsible for regulating the cellular uptake and storage of glucose. Bovine insulin also plays an important role in metabolism of amino acids and fatty acids, while effectively inhibiting the degradation of glycogen protein and fat. Due to these characteristics, it is commonly used as a growth factor in many mammalian cell culture systems. |

### GENE INFORMATION

|                        |                            |
|------------------------|----------------------------|
| <b>Gene Name</b>       | INS insulin [ Bos taurus ] |
| <b>Official Symbol</b> | INS                        |
| <b>Synonyms</b>        | insulin; proinsulin        |
| <b>Gene ID</b>         | 280829                     |
| <b>mRNA Refseq</b>     | NM_001185126               |

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|                            |                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | NP_001172055                                                                                                                         |
| <b>Chromosome Location</b> | chromosome: 29                                                                                                                       |
| <b>Pathway</b>             | AMPK signaling pathway, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Disease, organism-specific biosystem |
| <b>Function</b>            | hormone activity; identical protein binding; protein binding                                                                         |

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