



# Recombinant Dog Leptin (LEP)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-MP012870DO  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | O02720  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Canis lupus familiaris (Dog) (Canis familiaris)   |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | VPIRKVQDD TKTLIKTIVA RINDISHTQS VSSKQRVAGL DFIPGLQPVL<br>SLSRMDQTLA IYQQILNSLH SRNVVQISND LENLRDLLHL LASSKSCPLP<br>RARGLETFS LGGVLEASLY STEVVALNRL QAALQDMLRR LDLSPGC   |
| <b>Source</b>            | Mammalian cell  |
| <b>Target Names</b>      | LEP   |
| <b>Protein Names</b>     | Recommended name: Leptin Alternative name(s): Obesity factor  |
| <b>Expression Region</b> | 22-167  |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full Length of Mature Protein   |
| <b>Target Details</b>    | This gene encodes a protein that is secreted by white adipocytes, and which plays a major role in the regulation of body weight. This protein, which acts through the leptin receptor, functions as part of a signaling pathway that can inhibit food intake and/or regulate energy expenditure to maintain constancy of the adipose mass. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis and wound healing. Mutations in this gene and/or its regulatory regions cause severe obesity, and morbid obesity with hypogonadism. This gene has also been linked to type 2 diabetes mellitus development. |
| <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>Shelf Life</b>        | 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.   |