

Leptin, Mouse Recombinant

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| Catalog No. | CRL301A CRL301B CRL301C | Quantity: | 200 µg 1.0 mg 5 mg |
| Alternate Names: | OB protein, Obesity protein, OBS, Obesity factor | | |
| Description: | Recombinant Mouse Leptin produced in <i>E. coli</i> is a single, non-glycosylated, polypeptide chain containing 146 amino acids and having a MW = 16 kDa. | | |
| Source: | <i>E. coli</i> | | |
| Formulation: | Lyophilized from a concentrated (1 mg/ml) sterile filtered solution with 50 mM NH ₄ HCO ₃ , pH 8.0. | | |
| Purity: | Greater than 97.0% as determined by analysis by RP-HPLC and SDS-PAGE. | | |
| Endotoxin Level: | Less than 0.1 ng/µg (1 EU/µg) of protein. | | |
| Biological Activity: | Evidenced by inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. | | |
| Amino Acid Sequence: | The sequence of the first five N-terminal amino acids is Ala-Val-Pro-Ile-Gln. | | |
| Reconstitution: | Centrifuge vial prior to opening. First add sterile water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions. | | |
| Storage & Stability: | Lyophilized samples are stable at room temperature for 2 weeks, but it is recommended to store them desiccated at -20°C to -80°C. Upon reconstitution, protein should be stored at 2-4°C for one week and for six months at -20°C to -80°C. Add a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Avoid repeated freeze-thaw cycles. | | |
| Protein Content: | Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.201 as the extinction coefficient for a 0.1% (1 mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of Leptin as a Reference Standard. | | |

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