



Recombinant Human Leptin

Datasheet

Catalog Number: PR27097

Product Type: Recombinant Protein

Source: *E.Coli*

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Pro-Ile-Gln.

Description/Molecular Mass: Leptin Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 146 amino acids and having a molecular mass of 16 kDa.

Protein Content: Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm using the absorbency value of 0.878 as the extinction coefficient for a 0.1% (1mg/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

Purity: Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Biological Activity: Biological Activity is evidenced by inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor.

Format: The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045M NaHCO₃

Reconstitution: The lyophilized Leptin is very soluble in water and most aqueous buffers below and above the isoelectric point.

Storage: Lyophilized Leptin although stable at room temperature, should be stored desiccated below 0°C. Reconstituted Leptin is best stored refrigerated at 4°C.
Please avoid freeze-thaw cycles.

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