

Human Leptin Recombinant Protein



RPPB5738

Product Information Protein Information

Product SKU:

RPPB5738

Accession:

P41159

Host:

Escherichia Coli.

Protein description:

Pegylated Leptin N82K Human Recombinant produced in E.Coli is a single non-glycosylated polypeptide chain containing 146 amino acids, an additional Ala at N-terminus and one molecule of PEG 20 kDa at its N-terminus acids and having a molecular weight of 35.6kDa. However due to enlarged hydrodynamic volume it runs on the SDS-PAGE as 48 kDa protein and in gel-filtration on Superdex 200 as over 200 kDa protein. Pegylated Leptin N82K Human Recombinant was purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

OB Protein, Obesity Protein, OBS, Obesity factor.

Formulation:

Lyophilized from a concentrated (0.65mg/ml) solution with 0.003mM NaHCO₃ Having 35-40% protein.

Purity:

Greater than 99.0% as determined by:(a) Gel filtration analysis.(b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Pegylated Leptin N82K in sterile water or 0.4% NaHCO₃ adjusted to pH 8-9, not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Pegylated Leptin N82K although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Pegylated Leptin N82K should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Biological Activity:

Biological Activity is < than 0.1% as determined by inducing proliferation of BAF/3 cells stably transfected with the long form of human leptin receptor. This abolishment of activity results from drastically reduced affinity toward leptin receptor.