

## Recombinant Human Leptin

### ORDERING INFORMATION

Catalog Number	Size
26106P-200	200 ug
26106P-1	1 mg
26106P-5	5 mg

**Format:** Sterile filtered, lyophilized.

**Purification:** Chromatographic

### DESCRIPTION

Recombinant Human Leptin produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 147 amino acids with a molecular mass of 16,240 daltons. This product has full biological activity.

### SPECIFICATION SUMMARY

**Source:** *Escherichia coli*

**Stabilizers:** None

**Preservatives:** None

**Purity:** Greater than 95% by RP-HPLC, anion-exchange chromatography; reducing and non-reducing SDS-PAGE, silver stain.

**Dimers/Aggregates:** <1% by SDS-PAGE

**Biological Activity:** Fully biologically active compared to reference standards. ED<sub>50</sub> determined by the leptin-

dependent stimulation of human OB-R transfected murine BaF3 cells is 0.5-1.6 ng/ml.

**Endotoxin:** <0.1 ng/ug

**Protein Content:** Determined spectrophotometrically at 280nm (extinction coefficient 0.878) and by RP-HPLC analysis against a calibrated standard.

### SOLUBILITY

Soluble in water and most aqueous buffers above and below the isoelectric point. Dialyzed against 45mM sodium bicarbonate prior to lyophilization.

### STORAGE AND STABILITY

Lyophilized product is stable at room temperature, but should be stored desiccated at -20°C. Upon reconstitution, store at 4°C. Avoid repeated freeze-thaw cycles.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures*