



Recombinant Protein Technical Manual
Recombinant Carassius auratus Leptin Protein (His
Tag)
RPES4171

Product Data:

Product SKU: RPES4171

Size: 10µg

Species: Carassius auratus

Expression host: Yeast

Uniprot: B8YI02

Protein Information:

Molecular Mass: 18.3 kDa

AP Molecular Mass: 17 kDa

Tag: N-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Leptin; Obese Protein; Obesity Factor; LEP; OB; OBS

Immunogen Information:

Sequence: Pro22-Cys171

Background:

Leptin is a hormone secreted from white adipocytes and plays important role in the regulation of food intake and energy balance. Leptin functions via signaling pathways involving OB-R in hypothalamus. In mammals, leptin is mainly produced by the adipose tissue and encodes body fat reserves, acting as a short-term satiety signal. In fish, the presence of a leptin-like peptide was first evidenced by immuno-cross-reactivity, and its existence was certainly demonstrated after the finding by synteny of a leptin sequence in the pufferfish.