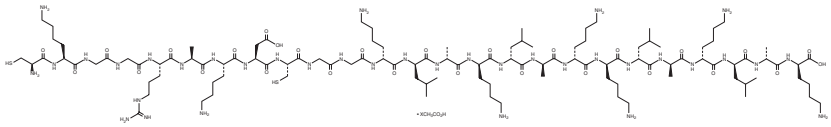
PRODUCT INFORMATION

Adipotide (acetate)

Item No. 46401

Synonyms: CKGGRAKDC-GG-klaklakklaklak, Prohibitin Targeting Peptide-1, Prohibitin TP01
Peptide Sequence: CKGGRAKDC-GG-$_D$(KLAKLAK)$_2$-OH
MF: $C_{111}H_{206}N_{36}O_{28}S_2 \bullet XC_2H_4O_2$
FW: 2,557.2
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Adipotide (acetate) is supplied as a solid. A stock solution may be made by dissolving the adipotide (acetate) in the solvent of choice, which should be purged with an inert gas. Adipotide (acetate) is sparingly soluble (1-10 mg/ml) in DMSO.

Adipotide (acetate) is slightly soluble (0.1-1 mg/ml) in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

Adipotide is a ligand-directed peptidomimetic composed of a prohibitin-targeting sequence and a proteolysis-resistant apoptosis-inducing sequence linked by a glycinylglycine bridge.[1] It induces apoptosis in the vasculature of white adipose tissue (WAT), reduces body weight and subcutaneous and visceral fat depots, and improves glucose tolerance in mice fed a high-calorie diet when administered at a dose of 150 µg/animal. Adipotide (0.43 mg/kg) also reduces body weight, total body fat, and abdominal circumference in obese rhesus macaques.[2]

References

1. Kolonin, M.G., Saha, P.K., Chan, L., *et al.* Reversal of obesity by targeted ablation of adipose tissue. *Nat. Med.* **10(6)**, 625-632 (2004).
2. Barnhart, K.F., Christianson, D.R., Hanley, P.W., *et al.* A peptidomimetic targeting white fat causes weight loss and improved insulin resistance in obese monkeys. *Sci. Transl. Med.* **3(198)**, 108ra112 (2011).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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