R3TA LLC — Research Brief

Weight & Adiposity

Reference materials for in-vitro and ex-vivo study of body-weight regulation, adipocyte biology, and fat-mass distribution.

For Research Use Only. Not for human or animal consumption.

Overview

Retatrutide is a triple incretin-receptor agonist that has demonstrated dose-dependent reductions in body weight and adiposity in translational research models.

R3TA reference materials are supplied for in-vitro characterization of adipocyte differentiation, lipolysis, and energy-balance pathways—not as a weight-management agent.

All materials are released with identity and purity documentation and are intended For Research Use Only.

Representative in-vitro endpoints

- 3T3-L1 adipocyte differentiation and lipid-droplet quantification
- cAMP accumulation in GLP-1R, GIPR, and GCGR transfected cell lines
- Ex-vivo adipose-tissue explant lipolysis and thermogenesis markers
- Body-composition surrogate endpoints in validated preclinical models

Handling & storage

- Store lyophilized material at –20 °C, protected from light
- Reconstitute with sterile diluent immediately before assay
- Aliquot after reconstitution to avoid repeated freeze–thaw
- Record lot number and reconstitution date in the laboratory record

Analytical documentation

- Identity confirmed by LC-MS against theoretical monoisotopic mass
- Purity determined by RP-HPLC at 214 nm
- Endotoxin and residual solvent data available on request