

# Sleep & Respiratory

*Reference materials for in-vitro and ex-vivo research on upper-airway physiology and sleep-disordered breathing models.*

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

## Overview

Clinical reports have associated retatrutide with improvements in obstructive sleep apnea severity, likely secondary to weight and metabolic effects.

R3TA reference materials are used in cell and tissue models relevant to upper-airway collapsibility, inflammation, and respiratory control—not as a sleep therapy.

Supplied For Research Use Only.

## Representative in-vitro endpoints

- Upper-airway muscle-cell contractility and metabolism endpoints
- Airway macrophage inflammatory cytokine panels
- Hypoglossal motor-neuron activation assays
- Ex-vivo respiratory tissue oxygen-consumption studies

## Handling & storage

- Store sealed formats at the temperature stated on the lot label
- Keep foil sachets intact until point of analysis
- Avoid humidity exposure for film and capsule formats
- Record environmental conditions during testing

## Analytical documentation

- Content-uniformity summary per lot
- Accelerated stability data on request
- RP-HPLC assay method summary

This brief describes analytical reference materials supplied by R3TA LLC for in-vitro laboratory research. It is not a protocol and contains no dosing, administration, or therapeutic guidance. R3TA LLC makes no claims regarding the efficacy or safety of retatrutide or any reference material for human or veterinary use.