



HUMAN DATA: KRATOM PRODUCES OPIOID-LIKE EFFECT

Results from three dose studies in humans

ACTS LIKE AN OPIOID

- Binds to the same receptors as opioids
- Converts in the body to a stronger active compound
- Produces opioid-like pharmacologic effects in humans

STAYS IN THE BODY

- Drug levels increase as doses increase
- Remains in the body for days—not hours
- Builds up with repeated use

REAL SIDE EFFECTS IN HUMANS

- Nausea, dizziness, and sedation reported
- Side effects increase with higher doses
- Liver enzyme changes observed in trials

WHAT THIS MEANS FOR POLICY

Kratom shows opioid-like effects in humans
Builds up in the body with repeated use
Produces real, dose-related side effects
These are the same criteria used to justify controlled substance scheduling.

WHAT THIS LOOKS LIKE IN PRACTICE

- Use leads to measurable drug exposure in the body
- Effects increase as dose increases
- Repeated use results in ongoing presence in the bloodstream
- Side effects are documented in controlled human trials