

IN VITRO LIPOLYSIS ASSAY ON HUMAN ADIPOCYTES

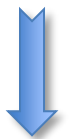
✓ Evaluate the impact of your test compound on lipolysis in human adipocytes.

Key benefits:

- Human adipocytes *in vitro* lipolysis assay enables screening and proof of concept for your drug efficacy.
- Human adipocytes can be isolated from patients with various BMI values (lean, overweight and obese).

HUMAN ADIPOCYTES

Human pre-adipocytes
2D culture



15 days
for cell differentiation
and maturation

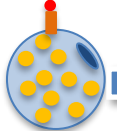
In vitro lipolysis assay:

Isoproterenol or IBMX as inducers, and insulin as inhibitor.



Get your study report in 6 weeks

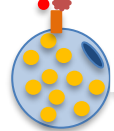
Isoproterenol
or IBMX



lipolysis → ↑ glycerol

human adipocytes

Isoproterenol or IBMX + Insulin

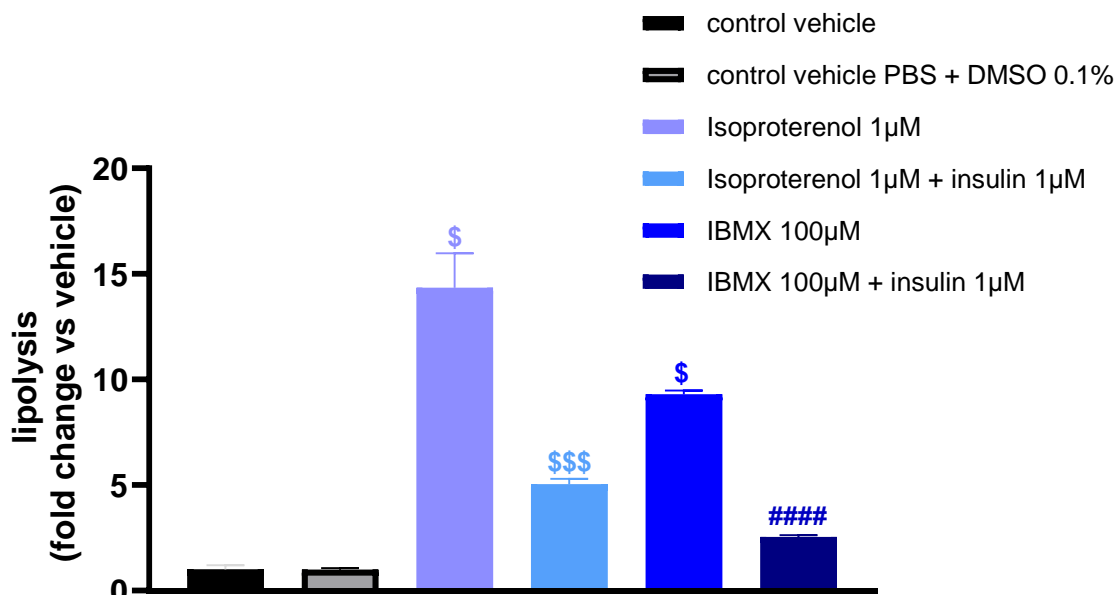


lipolysis → ↓ glycerol

human adipocytes

RESULTS

Insulin represses lipolysis in human adipocytes after 3h of stimulation.



Lipolysis in human adipocytes. Isoproterenol or IBMX compared with control vehicle ($p < 0.05$). Isoproterenol + insulin compared with isoproterenol ($p < 0.001$) and IBMX + insulin compared with IBMX ($p < 0.0001$).