

## IN VITRO GLUCOSE UPTAKE ASSAY ON HUMAN ADIPOCYTES

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

### Key benefits:

- Human adipocytes *in vitro* glucose uptake assay enables screening and initial *in vitro* proof of concept.
- Human adipocytes are from pooled patients of different IBM options (lean, overweight and obese).

## HUMAN ADIPOCYTES

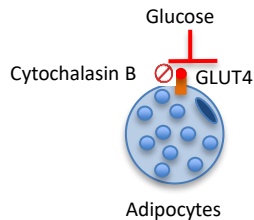
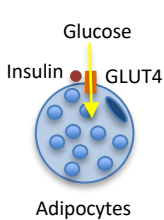
Human pre-adipocytes  
2D culture.



15 days  
differentiation and  
maturation

### Glucose uptake :

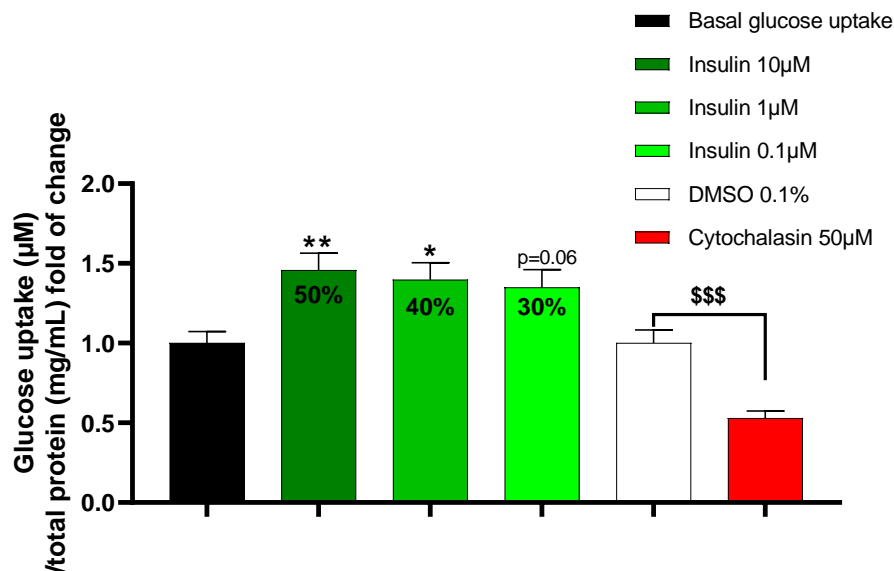
Insulin (positive control) and cytochalasin B (negative control) as reference compounds.



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## RESULTS

**Dose-dependent insulin-stimulated glucose uptake, inhibited by cytochalasin-B, in human adipocytes.**



Glucose uptake in human adipocytes (pool from non-obese, non-diabetic and insulin sensitive patients with BMI 25-29). \*p<0.05; \*\*p<0.001; and \$\$\$p<0.0001.