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Modelling Insulin resistance in vitro

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We use this protocol and it's working

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Abstract

This protocol contains the instruction for modelling insulin resistance in iPSC-derived neurons by depriving the cells of insulin overnight followed by a 30 minutes insulin treatment the following day.

1 The media is removed from the cells

2 Cells are washed 1x with PBS

3 Fresh media is added the cells supplemented with B27 without insulin (Thermofisher A1895601).

4 Cells are left back in the incubator Overnight at 37 °C and 5% CO2 18h

5 The following day, insulin was added to the media at either [M] 100 nanomolar (nM) , [M] 250 nanomolar (nM) or [M] 1 micromolar (µM) for 00:30:00 30m