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Analysing cellular ATP levels

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ABSTRACT

Protocol for analysis of cellular ATP levels using the Promega Mitochondrial Toxglo Kit

Protocol Citation: Louise Uoselis 2023. Analysing cellular ATP levels. **protocols.io** https://protocols.io/view/analysing-cellular-atp-levels-cybsxsne

Protocol status: Working
We use this protocol and it's working

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Day 1

1 Seed cells into white opaque walled 96 well plates in 80 µL of media/well, aiming for a confluency of ~80-90% the next day at the time of treatment. Fill all surrounding wells with water to prevent evaporation of the experimental samples. Make sure you seed a DMSO treatment control for each sample collection point.

Day 2

5m

2 Treat cells as desired in 80 µL of media/well

3 If analysing cells cultured in galactose media, change the media to galactose media 12 – 24 h prior to sample collection.

4 To analyse ATP levels, warm the 2x ATP detection reagent to Room temperature, add 80 µL of the 2x ATP detection reagent to each well using a multichannel pipette

5 Place the plate on a shaker block set to Room temperature, cover the plate in foil, and incubate the plate shaking at 400 rpm for 00:05:00 5m

6 Immediately take the plate to a plate reader that can read luminescence signal