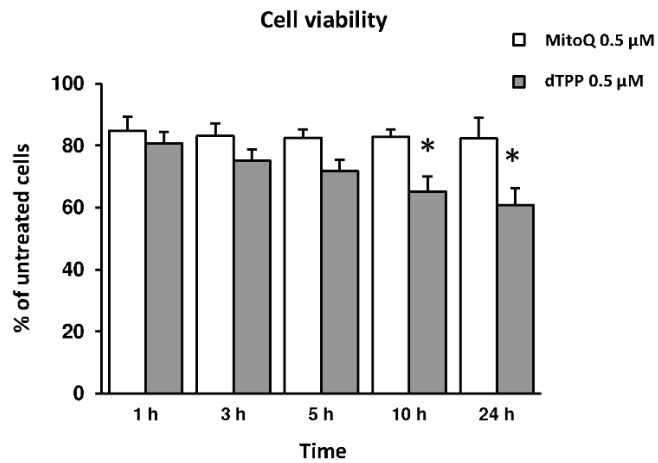# Supplementary Material

The Mitochondria-Targeted Antioxidant MitoQ Modulates Mitochondrial Function and Endoplasmic Reticulum Stress in Pancreatic β Cells Exposed to Hyperglycaemia

Irene Escribano-Lopez[a]   Celia Bañuls[a]   Noelia Diaz-Morales[a]
Francesca Iannantuoni[a]   Susana Rovira-Llopis[a]   Ramon Gomis[b]
Milagros Rocha[a,c]   Antonio Hernandez-Mijares[a,d,e]   Michael P. Murphy[f]
Victor M. Victor[a,c,g]

[a]Service of Endocrinology and Nutrition, University Hospital Doctor Peset, Foundation for the Promotion of Health and Biomedical Research in the Valencian Region (FISABIO), Valencia, Spain, [b]Ciberdem - Department of Endocrinology and Nutrition, Hospital Clinic. School of Medicine, University of Barcelona, Diabetes and Obesity Research Laboratory, Institut d'Investigacions Biomèdiques August Pi i Sunyer (Idibaps), Barcelona, Spain, [c]Ciberehd - Departments of Pharmacology and Physiology, University of Valencia, Valencia, Spain, [d]Institute of Health Research INCLIVA, University of Valencia, Valencia, Spain, [e]Department of Medicine, University of Valencia, Valencia, Spain, [f]MRC Mitochondrial Biology Unit, University of Cambridge, Cambridge, United Kingdom, [g]Department of Physiology, University of Valencia, Valencia, Spain
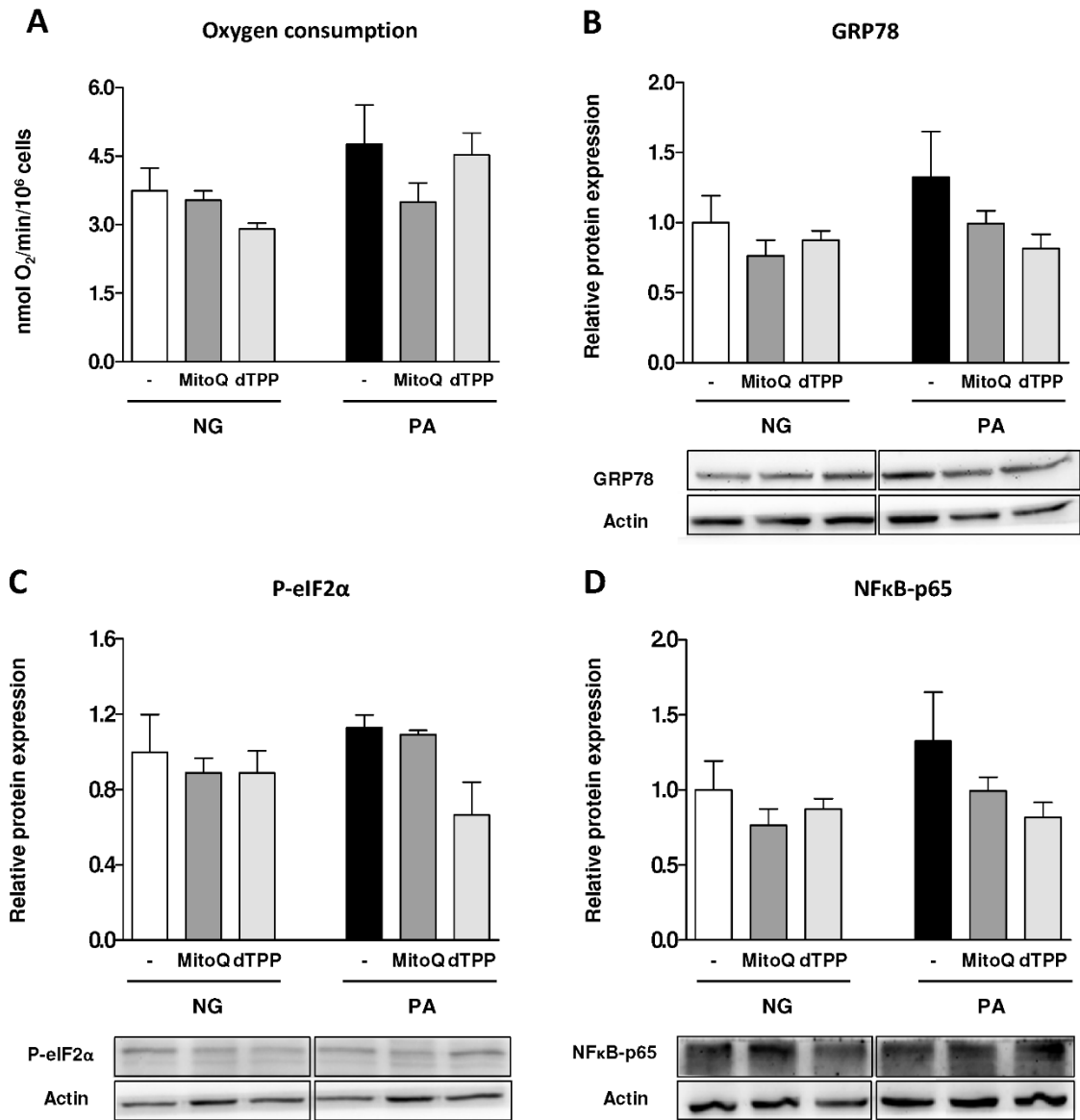
Supplementary Material

Supplementary Figure 1

Supplementary Fig. 1. Cell viability in pancreatic β cells under normoglycaemia in the presence and absence of MitoQ (0.5 µM) at different time points. Data are displayed as a percentage of absorbance relative to that of untreated cells.

Supplementary Figure 2

Supplementary Fig. 2. Effect of MitoQ (24h) in INS-1E cells exposed to NG or PA conditions (A) Oxygen consumption **(B)** Protein levels of GRP78 and representative WB images **(C)** Protein levels of P-eIF2α and representative WB images **(D)** Protein levels of NFκB and representative WB images (data represented as mean ± S.E.M, n=3-4).