

Aug 29, 2024



OFP-induced mitophagy experiments

DOI

dx.doi.org/10.17504/protocols.io.e6nvw11m9lmk/v1

Elias Adriaenssens¹

¹Sascha Martens lab, University of Vienna, Max Perutz Labs - Vienna



Elias Adriaenssens

Sascha Martens lab, University of Vienna, Max Perutz Labs - ...

OPEN ACCESS



DOI: dx.doi.org/10.17504/protocols.io.e6nvw11m9lmk/v1

Protocol Citation: Elias Adriaenssens 2024. DFP-induced mitophagy experiments. protocols.io

https://dx.doi.org/10.17504/protocols.io.e6nvw11m9lmk/v1

License: This is an open access protocol distributed under the terms of the Creative Commons Attribution License, which permits

unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

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

working

Created: May 23, 2024

Last Modified: August 29, 2024

Protocol Integer ID: 101114

Keywords: ASAPCRN

Funders Acknowledgement: Aligning Science Across Parkinson's (ASAP) Grant ID: ASAP-000350 Marie Skłodowska-Curie **MSCA Postdoctoral**

fellowship

Grant ID: 101062916



Abstract

This protocol details the DFP-induced mitophagy experiments.

Materials

Deferiprone (DFP) (379409, Sigma Aldrich)



※ 3-Hydroxy-1,2-dimethyl-4(1H)-pyridone **Merck MilliporeSigma (Sigma-Aldrich) Catalog #**379409



DFP-induced mitophagy

2d

1 To induce mitophagy,

1d

- Treat the cells for ১ 24:00:00 with M 1 millimolar (mM) Deferiprone (DFP) (379409, Sigma Aldrich), an iron chelator that mimics hypoxic conditions through stabilization of the transcription factor HIF1a and subsequent upregulation of NIX and BNIP3.
- 2 Freshly dissolve the compound in sterile dH₂O on the day itself and boil for 00:01:00 at § 95 °C to dissolve the compound.

1m