

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: **The Live cell imaging of COS-7 Cells transfected with GFP-vector under nigericin stimulation**

COS-7 Cells were transfected with Vector-GFP plasmid, 36 hours later, the cells were stimulated with nigericin (10 μ M). Images were taken every 5 min and last Validate for 2 h under ZEISS Axio observer7 microscopy. Image size, 150 μ m x 140 μ m.

File Name: Supplementary Movie 2

Description: **The Live cell imaging of COS-7 Cells transfected with NLRP3 WT-GFP-vector under nigericin stimulation**

COS-7 Cells were transfected with NLRP3-WT-GFP plasmid, 36 hours later, the cells were stimulated with nigericin (10 μ M). Images were taken every 5 min and last Validate for 2 h under ZEISS Axio observer7 microscopy. Image size, 150 μ m x 140 μ m.

File Name: Supplementary Movie 3

Description: **The Live cell imaging of COS-7 Cells transfected with NLRP3 K24R-GFP-vector under nigericin stimulation**

COS-7 Cells were transfected with NLRP3-K24R-GFP plasmid, 36 hours later, the cells were stimulated with nigericin (10 μ M). Images were taken every 5 min and last Validate for 2 h under ZEISS Axio observer7 microscopy. Image size, 150 μ m x 140 μ m.