

# *Cells*

Supplementary Materials for

**Imeglimin Exhibits Novel Anti-Inflammatory Effects on High Glucose-Stimulated Mouse Microglia through ULK1-Mediated Suppression of the TXNIP–NLRP3 Axis**

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This file includes Table S1, Table S2, and Figure S1.

**Supplementary Table S1.** List of primer sequences.

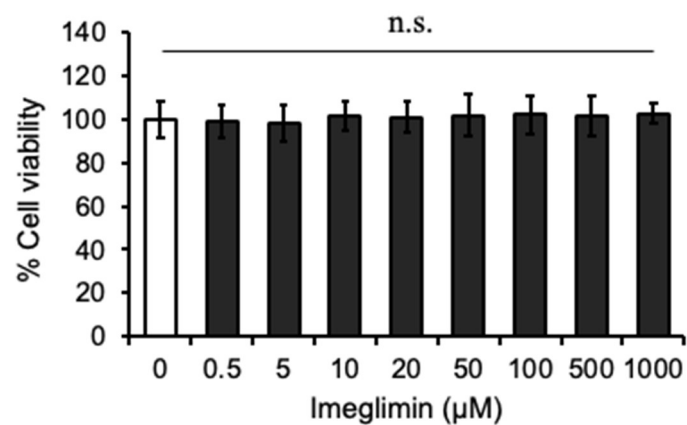
<i>Genes</i>		Primers (5'-3')	Reference
<i>Il-1<math>\beta</math></i>	Forward	CTGAACTCAACTGTGAAATGCCA	[1]
	Reverse	AAAGGTTTGGGAAGCAGCCCT	
<i>Tnfa</i>	Forward	ACCCTCACACTCAGATCATCTTC	[2]
	Reverse	TGGTGGTTTGCTACGACGT	
<i>Hmgb1</i>	Forward	CGCGGAGGAAAATCAACTAA	[3]
	Reverse	TCATAACGAGCCTTGTCAGC	
<i>Ulk1</i>	Forward	CACTGCGTGGCTCACCTAAG	[4]
	Reverse	AGCCAACAGGGTCAGCAAAT	
<i>18s</i>	Forward	CGATGCTCTTAGCTGAGTGT	[1]
	Reverse	GGTCCAAGAATTTACCTCT	

## References

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**Supplementary Table S2.** List of antibodies.

Antibodies	Supplier	Catalog no.
anti- $\beta$ -actin	Cell Signaling Technology (CST), Danvers, MA, USA	#4967
anti-AMPK $\alpha$	CST	#5831
anti-ASC	CST	#67824
anti-ATG7	CST	#8558
anti-Cleaved caspase-1 Asp296	CST	#89332
anti-Cleaved caspase-3 Asp175	CST	#9661
anti-Caspase-3	CST	#9662
anti-GAPDH	CST	#2118
anti-HMGB1	CST	#3935
anti-NLRP3	CST	#15101
anti-Parkin	CST	#2132
anti-PARP	CST	#9532
anti-phospho ULK1 Ser555	CST	#5869
anti-phospho AMPK $\alpha$ Thr172	CST	#2535
anti-TXNIP	CST	#14715
anti-ULK1	CST	#8054
anti-LC3	MEDICAL & BIOLOGICAL LABORATORIES (MBL), Tokyo, Japan	M152-3
anti-p62	MBL	PM045
anti-Caspase-1	Proteintech, Rosemont, IL, USA	22915-1-AP
anti-PINK1	Novus Biologicals, Centennial, CO, USA	BC100-494
anti-mouse IgG, HRP-linked antibody	CST	#7076
anti-rabbit IgG, HRP-linked antibody	CST	#7074



**Figure S1.** Cytotoxic effects of imeglimin on BV2 cells. Cells were incubated with imeglimin at the dose indicated or the vehicle control for 24 h. The cytotoxicity was determined using a colorimetric assay based on dehydrogenase activity. Data are presented as the mean  $\pm$  SEM from three independent experiments ( $n = 3$ ). n.s.: not significant, SEM: standard error of the mean.