#### GLP-1 receptor agonist ameliorates experimental lung fibrosis

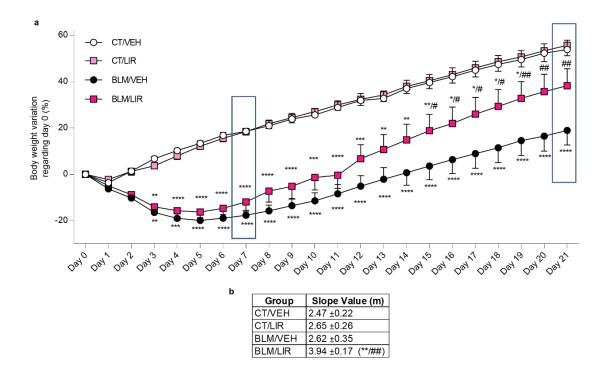
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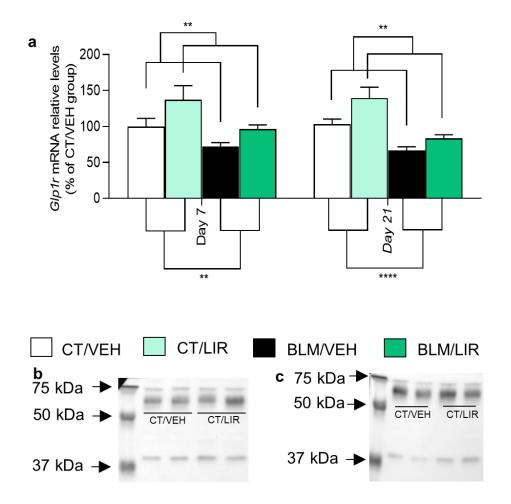
## SUPPLEMENTARY INFORMATION

## **Supplementary Figure S1**



Supplementary Figure S1. Body weight variation during the experimental period. Control (CT) groups n=8; Bleomycin (BLM) groups n=12. (a) Body weight variation represented as a percentage of body weight in respect to day 0 of experiment. Two-way ANOVA following Bonferroni's multiple comparison test. \*  $p \le 0.05$ ; \*\*  $p \le 0.01$ ; \*\*\*  $p \le 0.001$ ; \*\*\*\*  $p \le 0.0001$  vs. CT/VEH;  $\# p \le 0.05$ ;  $\#\# p \le 0.01$  vs. BLM/VEH. (b) Calculated slope of the body weight gain between day 7 and day 21 of the experiment; data represented as gram of body weight gain per 100 g per day (g/100g/day). Two-way ANOVA following Bonferroni's multiple comparison test. \*\*  $p \le 0.01$  vs CT/VEH; ## $p \le 0.01$  vs BLM/VEH.

#### **Supplementary Figure S2**



**Supplementary Figure S2**. mRNA expression of GLP-1 receptor in lung tissue. Bars represent mean, and error bars SEM. Two-way ANOVA test. \*\*  $p \le 0.01$ ; \*\*\*\*  $p \le 0.0001$ . (a) Day 7 and day 21 mRNA levels of glucagon-like peptide 1 receptor (*Glp1r*) normalized to C T/VEH group. n= 5-8 per group. (b) Representative Western-Blot cropped membrane of Day 7 GLP-1R protein. (c) Representative Western-Blot cropped membrane of Day 21 GLP-1R protein.

# Supplementary Table T1 RT PCR primers used.

Gene (accesion number)	Forward primer sequence	Reverse primer sequence	Product length (bp)	PCR efficiency (%)	cDNA dilution	Housekeeping gene
Actb (NM_031144.3)	5'-CACCATGTACCCAGGCATTG-3'	5'-CCTGCTTGCTGATCCACATC-3'	173	99,8	1\32	
Gapdh (NM_017008.4)	5'-AGCCCAGAACATCATCCCTG-3'	5'-GCATGTCAGATCCACAACGG-3'	136	104,7	1\32	
Acta2 (NM_031004.2)	5'-GGAGATGGCGTGACTCACAA-3'	5'-CGCTCAGCAGTAGTCACGAA-3'	152	101,9	1\32	Actb
Agt (NM_134432.2)	5'-GCTGGAGCTAAAGGACACACA-3'	5'-GCAGGTGCTCTTGCTGTAGTA-3'	169	101,2	1\8	Gapdh
Agtr1a (NM_030985.4)	5'-TTCGTGGCTTGAGTCCTGTT-3'	5'-GGTGATCACTTTCTGGGAGGG-3'	178	96,6	1\32	Gapdh
Agtr2 (NM_012494.3)	5'-CCGTGACCAAGTCTTGAAGATG-3'	5'-AGGGAAGCCAGCAAATGATG-3'	65	99,3	1	Actb
Arg1 (NM_017134.3)	5'-GCAGAGACCCAGAAGAATGGAAC-3'	5'-CGGAGTGTTGATGTCAGTGTGAGC-3'	144	101,0	1\8	Gapdh
Col1a1 (NM_053304.1)	5'-TGCAACATGGAGACAGGTCA-3'	5'-CGCTTCCATACTCGAACTGG-3'	151	106,3	1\32	Gapdh
Ctgf (NM_022266.2)	5'-CGCCAACCGCAAGATTG-3'	5'-CGCTTCCATACTCGAACTGG-3'	69	109,8	1\16	Gapdh
Fn1 (NM_019143.2)	5'-CAACTTCTGGTCCTCTCCCG-3'	5'-GGACCCCTGAGCATCTTGAG-3'	158	96,1	1\32	Gapdh
Glp-1R (NM_012728.1)	5'-AGTAGTGTGCTCCAAGGGCAT-3'	5'-AAGAAAGTGCGTACCCCACCG-3'	190	106,2	1\32	Gapdh
Mas1 (NM_012757.2)	5'-CTGGTCAACCTTTGGGAACCT-3'	5'-AAAGGGTTGGCGCTGCTA-3'	72	101,9	1\2	Gapdh
Nkx2-1 (NM_013093.1)	5'-CTTACCAGGACACCATGCGG-3'	5'-CTCATATTCATGCCGCTCGC-3'	118	104,0	1\32	Gapdh
P4ha3 (NM_198775.1)	5'-TTCCTTGTCTACAGCCCAGAC-3'	5'- TAGCCCCTCATAGGTGTCCC-3'	156	99,7	1\32	Gapdh
Pycr1 (NM_001105857.2)	5'-CTGTGGAAGCCTCCTGTATCC-3'	5'- CGGCTTAACATGGCCAGAAGA-3'	152	106,4	1\4	Gapdh
Sftpa1 (NM_001270645.1)	5'-CTGCCAGGATTTCCAGCTTAC-3'	5'-TTGACTGACTGCCCATTGGT-3'	155	100,6	1\32	Gapdh
Sftpb (NM_138842.1)	5'-CTGTGCCAAGAGTGTGAGGA-3'	5'-CAAGCAGCTTCAAGGGTAGG-3'	124	108,2	1\32	Gapdh
Sftpc (NM_017342.2)	5'-TGCTGCCCCGTGCATCTCAA-3'	5'-TTCACTCAGGGCGAGGCGTT-3'	180	94,3	1\32	Gapdh
Tgfb1 (NM_021578.2)	5'-GCTGAACCAAGGAGACGGAA-3'	5'-CCTCGACGTTTGGGACTGAT-3'	114	96,9	1\16	Gapdh

This table represent gene name and accession number of NCBI, primer pair sequence, the length of the amplicon, the efficiency of the PCR reaction calculated by the slope of the standard curve, the dilution of the cDNA used for the PCR reaction and the housekeeping gene used for the normalization of the gene expression.