



Systemic Beta-Hydroxybutyrate Affects BDNF and Autophagy into the Retina of Diabetic Mice

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Supplementary Materials

Table S1. Fasting blood glucose levels monitored during the 10-week BHB treatments. ** P < 0.01 vs CTRL.

	Blood glucose levels (mg/dl)					
	Diabetes de- velopment	Week 2	Week 4	Week 6	Week 8	Week 10
CTRL	95 ± 15	92 ± 11	100 ± 5	87 ± 8	94 ± 10	98 ± 6
BHB 100	285 ± 23 **	291 ± 28 **	284 ± 20 **	288 ± 17 **	275 ± 18 **	274 ± 13 **
BHB 50	292 ± 28 **	294 ± 21 **	289 ± 24 **	291 ± 25 **	287 ± 20 **	280 ± 19 **
BHB 25	294 ± 24 **	297 ± 17 **	291 ± 24 **	293 ± 15 **	288 ± 24 **	281 ± 25 **
STZ	290 ± 22 **	293 ± 27 **	280 ± 17 **	284 ± 19 **	271 ± 12 **	265 ± 10 **

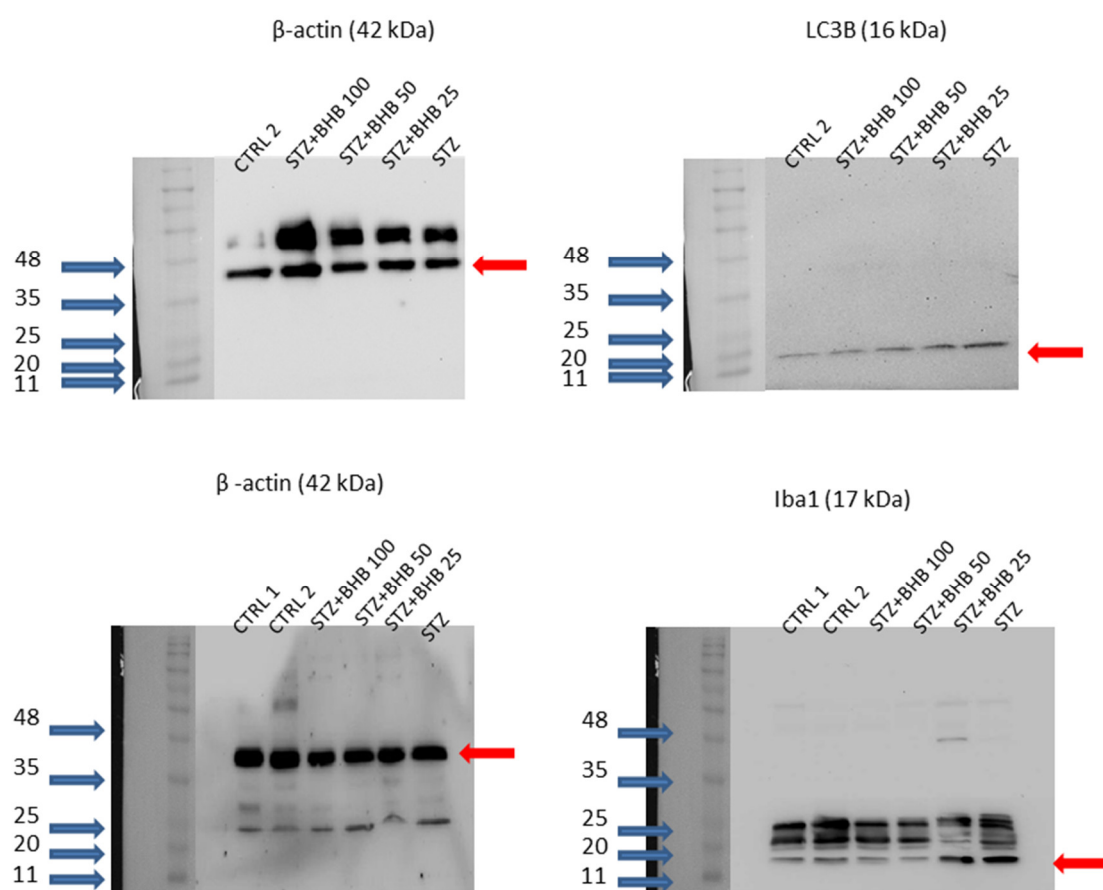


Figure S1. Uncropped images of representative β -actin, LC3B and Iba1 Western Blotting membranes.

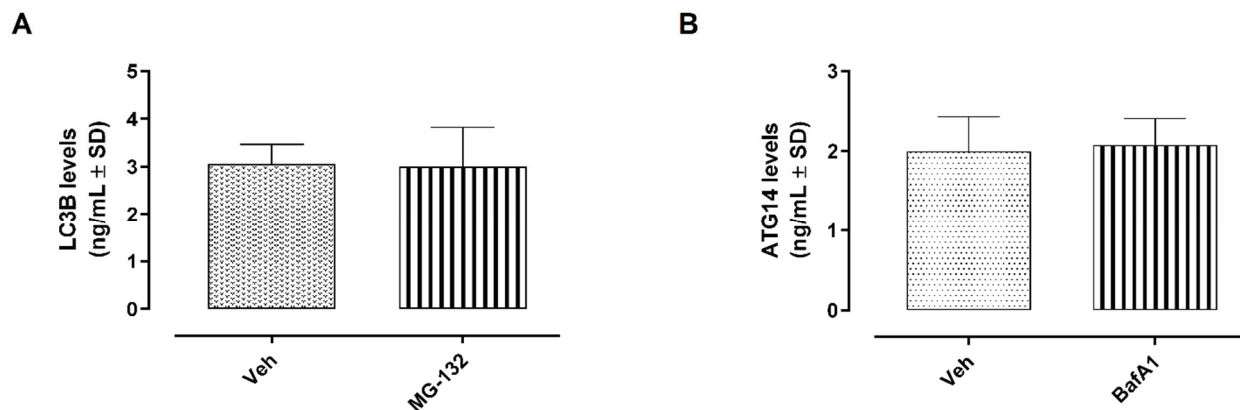


Figure S2. LC3B and ATG14 levels in STZ mice treated with MG-132 and bafilomycin A1. (A) LC3B levels, detected by ELISA Kit (ABIN6957822; Biocompare, Milan, Italy) after 2 weeks from contemporaneous i.p injections of STZ (75 mg/kg, single administration) and vehicle (Veh group; 0.5% DMSO) or STZ and MG-132 (MG-132 group; 10 µg/kg daily for 2 weeks). (B) ATG14 levels, detected by ELISA Kit (abx503511; abbexa, Cambridge, UK) after 2 weeks from contemporaneous i.p injections of STZ and vehicle (Veh group; 0.5% DMSO) or STZ and bafilomycin A1 (BafA1 group; 0.3 mg/kg daily, for 3 days).