

SUPPLEMENTARY DATA

Supplementary Table 1. Food intake and body weight at 14h, 24h and 48h post DVC injections.

	Food Intake (g)			Body Weight (% increase)	
	14 h	24h	48h	14h	24h
DVC-saline (n=13)	33.35 ± 0.96	35.79 ± 0.95	70.84 ± 1.8	3.92 ± 0.42	1.78 ± 0.66
DVC-Insulin 2 mU/μl (n=11)	28.12 ± 1.24	33.3 ± 4.16	61.52 ± 6.91	2.91 ± 0.37	0.61 ± 0.57
DVC-Insulin 200 μU/μl (n=5)	27.18 ± 3.40	29.44 ± 2.85	64.11 ± 4.82	1.91 ± 1.40	-0.41 ± 1.07
DVC-Insulin 20 μU/μl (n=5)	31.34 ± 3.18	32.7 ± 2.89	68.86 ± 4.23	2.64 ± 0.62	0.11 ± 0.35
DVC-Insulin 2 μU/μl (n=5)	29.2 ± 1.76	31.03 ± 2.1	65.78 ± 4.36	2.73 ± 0.66	0.73 ± 0.71
DVC-PD9809+Saline (n=6)	29.13 ± 2.57	31.2 ± 1.95	63.59 ± 3.47	2.09 ± 0.51	-0.23 ± 0.64
DVC-PD9809+insulin 400 μU/site (n=6)	31.41 ± 1.21	32.11 ± 1.20	65.07 ± 2.78	3.28 ± 0.78	-0.23 ± 0.82
DVC-LY294002+Saline (n=7)	28.65 ± 2.21	30.6 ± 2.74	59.25 ± 6.49	2.44 ± 0.96	-0.51 ± 0.92
DVC-LY294002+insulin 400 μU/site (n=7)	24.741 ± 1.86	26.62 ± 2.31	56.28 ± 6.26	2.45 ± 0.46	-0.21 ± 0.74

The food intake of the indicated groups of rats was measured 14, 24 and 48 h after the DVC injection. The body weight is expressed as % increase over the body weight recorded at time 0 (i.e., before DVC injection).

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Supplementary Figure 1. Localization of GFP adenovirus. Rats implanted with a bilateral DVC catheter were infected with the adenovirus expressing the GFP the day of the surgery. Rats were then subjected to cardiac perfusion with 4% paraformaldehyde. Paraformaldehyde-fixed DVC tissues were frozen in liquid nitrogen and stored at -80°C until sectioning using a cryostat (Leica CM1950, Leica Microsystems, Nussloch, Germany) at -20°C . Coronal sections of $10\ \mu\text{m}$ were taken from the frozen tissues. For immunohistochemical staining, slides were washed in Tris-buffered saline (TBS) plus 0.025% Triton X-100 with gentle agitation. The cover slip was then mounted using ProLong Gold Antifade reagent with DAPI. Immunostaining was detected with a fluorescence microscope (QImaging, Olympus IX71). In the figure the GFP, Dapi and merge of the two staining are shown. The upper panels (A, B, C) show a snapshot of the squared red area in the scheme (G). The lower panels (D, E F) show a snapshot of the blue squared area in the scheme (G)

