

Adiponectin affects the mechanical responses in strips from the mouse gastric fundus

Idrizaj E *et al.* Effects of adiponectin on gastric strips

Eglantina Idrizaj, Rachele Garella, Giovanni Castellini, Hermine Mohr, Natalia S. Pellegata, Fabio Francini, Valdo Ricca, Roberta Squecco, Maria Caterina Baccari

Abstract

AIM

To investigate whether the adipocytes derived hormone adiponectin (ADPN) affects the mechanical responses in strips from the mouse gastric fundus.

METHODS

For functional experiments, gastric strips from the fundal region were cut in the direction of the longitudinal muscle layer and placed in organ baths containing Krebs-Henseleit solution. Mechanical responses were recorded *via* force-displacement transducers, which were coupled to a polygraph for continuous recording of isometric tension. Electrical field stimulation (EFS) was applied *via* two platinum wire rings through which the preparation was threaded. The effects of ADPN were investigated on the neurally-induced contractile and relaxant responses elicited by EFS. The expression of ADPN receptors, Adipo R1 and

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