

Pharmacological actions of substance P in the rat vas deferens

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SP produces two different muscular responses in the isolated vas deferens of the rat. 1) A myotropic, post-synaptic effect that results from stimulation of one subtype of SP receptor, located on the membrane of the smooth muscle (NK-3 receptor). 2) A neurogenic effect at the pre-synaptic level that results from stimulation of another subtype of SP receptor, located on the nerve terminals (NK-1 receptor). © 1991.