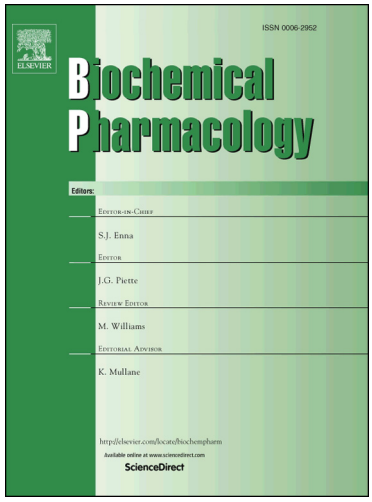

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Modulation of nitric oxide-stimulated soluble guanylyl cyclase activity by cytoskeleton-associated proteins in vascular smooth muscle

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Abstract

Soluble guanylyl cyclase (sGC, EC 4.6.1.2) is a key enzyme in the regulation of vascular tone. In view of the therapeutic interest of the NO/cGMP pathway, drugs were developed that either increase the NO sensitivity of the enzyme or activate heme-free apo-sGC. However, modulation of sGC activity by endogenous agents is poorly understood. In the present study we show that the maximal activity of NO-