

Activity of boldine on rat ileum

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Boldine shows a concentration-dependent relaxation effect on the rat ileum preparation with a pD_2 of 3.77 ± 0.12 . The alkaloid also produces a concentration-dependent parallel shift of the curve-response to acetylcholine, therefore it directly interferes with the cholinergic mechanism associated with the contraction, behaving as a competitive antagonist with a pA_2 of 4.78 ± 0.19 . On the other hand, boldine produces a nonparallel shift of the contraction response induced by barium, revealing the occurrence of a non-competitive antagonism. This effect could be the result of interference with intracellular events associated with the barium-induced changes in calcium pools.