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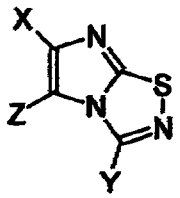
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(I)

(57) Abstract

Novel thiadiazole compounds are provided, which are effective as proton pumps inhibitors, useful in treating peptic ulcers by inhibition of the proton pump enzyme H^+/K^+-ATPase. The compounds are 3-substituted 1,2,4-thiadiazole [4,5-*a*]benzimidazole and 3-substituted imidazo[1,2-*d*]-1,2,4-thiadiazoles corresponding to general formula (I) where X and Z either represented an optionally substituted benzene ring fused to the diazole nucleus, or represent a variety of independent chemical groupings (hydrogen, lower alkyl, halo, etc.) and Y is selected from a wide range, e.g. heterocyclics and carbonyl groups.