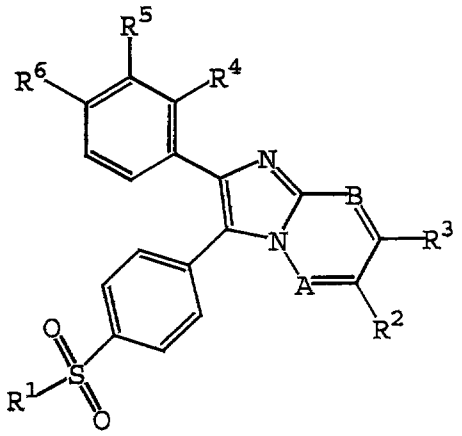
TITLE: Substituted imidazo[1,2a]azines as selective COX-2 inhibitors

The invention refers to new compounds of formula (I), wherein A and B are selected from the group consisting of N and CH, with the condition that when A is N, B is N; R^1 is selected from the group consisting of CH_3 and NH_2; R^2 and R^3 are selected from the group consisting of H, CH_3, Br, Cl, $COCH_3$ and OCH_3; and R^4, R^5 and R^6, are selected from the group consisting of H, F, Cl, Br, (C1-C3)-alkyl, trifluoromethyl, (C1-C3)-alkoxy and trifluoromethoxy. Compounds of formula (I) are prepared by reaction of a substituted aminoazine with a substituted 2-bromo-2-(4-R^1-sulfonylphenyl)-1-phenylethanone in a polar solvent. These new compounds inhibit COX-2 with high selectivity over COX-1. They are useful for the treatment of inflamation and/or cyclooxygenase-mediated diseases, having the additional advantage of a reduced potencial for ulcerogenic effects.



(I)