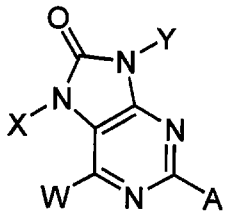
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ABSTRACT

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Medicines for treatment or prevention of dementia comprising 2-aryl-8-oxodihydropurine derivatives of the formula (I):



(I)

wherein W is H, C_{1-6} alkyl, halogen, C_{1-6} alkoxy, or the like; X is H, C_{1-6} alkyl, a group of the formula (Q):-$CH(R^3)CON(R^1)(R^2)$ (wherein R^1 is a C_{1-6} alkyl or the like; R^2 is phenyl-substituted C_{1-4} alkyl or the like; and R^3 is H or the like); Y is H, C_{1-6} alkyl, a group of the above formula (Q), or the like; and A is substituted phenyl or the like, with the proviso that one of X and Y is a group of the formula (Q) and the other is a group selected from those defined for X or Y except the groups (Q), or pharmaceutically acceptable acid addition salts thereof. The above compounds exhibit an extremely potent ameliorating effect on learning disorder and/or dymnesia and thus are useful in the treatment or prevention of Alzheimer-type dementia, cerebrovascular dementia, senile dementia, etc.