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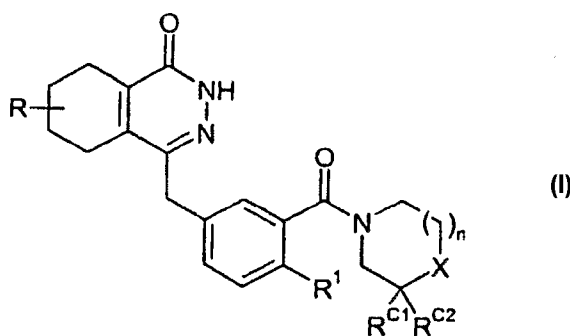
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(54) Title: PHTHALAZINONE DERIVATIVES AS INHIBITORS OF PARP-1



(57) **Abstract:** A compound of the formula (I): wherein: R represents one or more optional substituents on the fused cyclohexene ring; X can be NR^{X} or $\text{CR}^{\text{X}}\text{R}^{\text{Y}}$; if $\text{X} = \text{NR}^{\text{X}}$ then n is 1 or 2 and if $\text{X} = \text{CR}^{\text{X}}\text{R}^{\text{Y}}$ then n is 1; if $\text{X} = \text{NR}^{\text{X}}$, then R^{X} is selected from the group consisting of H, optionally substituted C_{1-20} alkyl, optionally substituted C_{5-20} aryl, optionally substituted C_{3-20} heterocyclyl, optionally substituted amido, optionally substituted thioamido, optionally substituted ester, optionally substituted acyl, and optionally substituted sulfonyl groups; if $\text{X} = \text{CR}^{\text{X}}\text{R}^{\text{Y}}$ then R^{X} is selected from the group consisting of H, optionally substituted C_{1-20} alkyl, optionally substituted C_{5-20} aryl, optionally substituted C_{3-20} heterocyclyl, optionally substituted amido, optionally substituted thioamido, optionally substituted sulfonamino, optionally substituted ether, optionally substituted ester, optionally substituted acyl, optionally substituted acylamido, and optionally substituted sulfonyl groups and R^{Y} is selected from H, hydroxy, optionally substituted amino, or R^{X} and R^{Y} may together form an optionally substituted spiro- C_{3-7} cycloalkyl or heterocyclyl group; R^{C1} and R^{C2} are both hydrogen, or when X is $\text{CR}^{\text{X}}\text{R}^{\text{Y}}$, R^{C1} , R^{C2} , R^{X} and R^{Y} , together with the carbon atoms to which they are attached, may form an optionally substituted fused aromatic ring; and R is selected from H and halo. The compounds act as inhibitors of poly(ADP-ribose)synthase, PARP-1.



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