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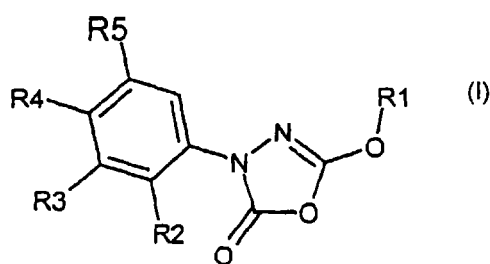
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For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.

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(54) Title: SUBSTITUTED 3-PHENYL-5-ALKOXI-1,3,4-OXDIAZOL-2-ONE AND USE THEREOF FOR INHIBITING HORMONE-SENSITIVE LIPASE

(54) Bezeichnung: SUBSTITUIERTE 3-PHENYL-5-ALKOXI-1,3,4-OXDIAZOL-2-ONE (UND) IHRE VERWENDUNG ZUR HEMMUNG DER HORMONSENSITIVEN LIPASE



(57) Abstract: The invention relates to substituted 3-phenyl-5-alkoxi-1,3,4-oxdiazol-2-ones of formula (I), wherein R¹ means substituted C₁-C₆-alkyl and C₃-C₉-cycloalkyl, R², R³, R⁴ and R⁵ mean hydrogen, halogen, nitro, C₁-C₄-alkyl, C₁-C₉-alkyloxy, substituted C₆-C₁₀-aryl-C₁-C₄-alkyloxy, C₆-C₁₀-aryloxy, C₆-C₁₀-aryl, C₃-C₈-cycloalkyl or O-C₃-C₈-cycloalkyl or 2-oxo-pyrrolidin-1-yl, 2,5-dimethylpyrrol-1-yl or NR⁶-A-R⁷, on the condition that R², R³, R⁴ and R⁵ do not mean simultaneously mean hydrogen and at least one of the radicals R², R³, R⁴ or R⁵ represents the radical 2-oxo-pyrrolidin-1-yl, 2,5-dimethylpyrrol-1-yl or NR⁶-A-R⁷, with R⁶ = hydrogen, C₁-C₄-alkyl or substituted C₆-C₁₀-aryl-C₁-C₄-alkyl, A = a simple bond, CO_n, SO_n or

CONH, n = 1 or 2, R⁷ = hydrogen, substituted C₁-C₁₈-alkyl, C₂-C₁₈-alkenyl, C₆-C₁₀-aryl-C₁-C₄-alkyl, C₅-C₈-cycloalkyl-C₁-C₄-alkyl, C₅-C₈-cycloalkyl, C₆-C₁₀-aryl-C₂-C₆-alkenyl, C₆-C₁₀-aryl, diphenyl, diphenyl-C₁-C₄-alkyl, indanyl or the group Het-(CH₂)_r, with r = 0, 1, 2 or 3 and Het = a saturated and unsaturated 5-7 membered heterocycle which can be benzoannellated and substituted. The invention also relates to a method for producing the same. The inventive compounds have an inhibitory effect on hormone-sensitive lipase, HSL.

(57) Zusammenfassung: Es werden substituierte 3-Phenyl-5-alkoxi-1,3,4-oxdiazol-2-one der Formel (1) beschrieben, worin R¹ substituiertes C₁-C₆-Alkyl und C₃-C₉-Cycloalkyl, R², R³, R⁴ und R⁵ Wasserstoff, Halogen, Nitro, C₁-C₄-Alkyl, C₁-C₉-Alkyloxy, substituiertes C₆-C₁₀-Aryl-C₁-C₄-alkyloxy, C₆-C₁₀-Aryloxy, C₆-C₁₀-Aryl, C₃-C₈-Cycloalkyl oder O-C₃-C₈-Cycloalkyl, oder 2-Oxo-pyrrolidin-1-yl, 2,5-Dimethylpyrrol-1-yl oder NR⁶-A-R⁷, bedeuten, mit der Massgabe, dass R², R³, R⁴ und R⁵ nicht gleichzeitig Wasserstoff bedeuten und mindestens einer der Reste R², R³, R⁴ oder R⁵ für den Rest 2-Oxo-pyrrolidin-1-yl, 2,5-Dimethylpyrrol-1-yl oder NR⁶-A-R⁷ steht, mit R⁶ = Wasserstoff, C₁-C₄-Alkyl oder substituiertes C₆-C₁₀-Aryl-C₁-C₄-alkyl, A = eine einfache Bindung, CO_n, SO_n oder CONH, n = 1 oder 2, R⁷ = Wasserstoff, substituiertes C₁-C₁₈-Alkyl, C₂-C₁₈-alkenyl, C₆-C₁₀-aryl-C₁-C₄-alkyl, C₅-C₈-Cycloalkyl-C₁-C₄-alkyl, C₅-C₈-Cycloalkyl, C₆-C₁₀-Aryl-C₂-C₆-alkenyl, C₆-C₁₀-Aryl, Diphenyl, Diphenyl-C₁-C₄-alkyl, Indanyl, oder die Gruppe Het-(CH₂)_r, mit r = 0, 1, 2 oder 3 und Het = gesättigter oder ungesättigter 5-7-gliedriger Heterocyclus, der benzoannelliert und substituiert sein kann, bedeuten sowie ein Verfahren zu deren Herstellung. Die Verbindungen zeigen eine hemmende Wirkung an der hormonsensitiven Lipase, HSL.

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