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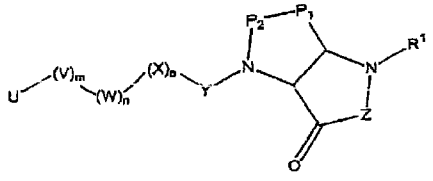
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(54) Title: BIOLOGICALLY ACTIVE COMPOUNDS



(I)

(57) Abstract: Compounds of general formula (I) wherein: Z = CR^3R^4, where R^3 and R^4 are independently chosen from C_{O-7}-alkyl P_1 = CR^5R^6, P_2 = O, CR^7R^8 or NR^9, Y = $CR^{10}R^{11}$-C(O) or $CR^{10}R^{11}$-C(S) or $CR^{10}R^{11}$-S(O) or $CR^{10}R^{11}$-$SO_2(X)_o$=.$CR^{16}R^{17}$ $(W)_n$ = 0, S, C(O), S(O) or $S(O)_2$-or NR^{18} $(V)_m$ = C(O), C(S), S(O), $S(O)_2$, $S(O)_2NH$, OC(O), NHC(O), NHS(O), $NHS(O)_2$, OC(O)NH, C(O)NH or $CR^{19}R^{20}$, C=N-C(O)-OR^{19} or C=N-C(O)-NHR^{19}, U = a stable. 5- to 7-membered monocyclic or a stable 8- to 11-membered bicyclic ring which is either saturated or unsaturated, and which includes zero to four heteroatoms and their salts, hydrates, solvates, complexes and prodrugs are inhibitors of cathepsin K and other cysteine protease inhibitors and are useful as therapeutic agents, .for example in osteoporosis, Paget's disease gingival diseases such as gingivitis and periodontitis, hypercalaemia of malignancy, metabolic bone disease, diseases involving matrix or cartilage degradation, in particular osteoarthritis and rheumatoid arthritis and neoplastic diseases. The compounds are also useful for validating therapeutic target compounds.

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