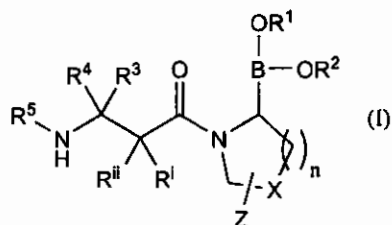


HETEROCYCLIC BORONIC ACID COMPOUNDS

ABSTRACT OF THE DISCLOSURE

Dipeptidyl peptidase IV (DPP-IV)-inhibiting compounds are provided that have formula

I:



wherein n is 1 to 3; X is CH₂; S; O; CF₂ or C(CH₃)₂; Z is H; halogen; hydroxyl; (C₁₋₆)alkoxy; (C₁₋₁₂)alkyl; (C₃₋₁₂)cycloalkyl; phenyl; or heteroaryl; where the phenyl and heteroaryl groups are optionally mono- or independently plurisubstituted with R⁷; optionally, X together with an adjacent ring carbon and Z form a fused cyclopropyl; and optionally, one of the bonds in the ring containing X is a double bond; and CRⁱRⁱⁱ, Rⁱ, R², R³, R⁴ and R⁵ are as described herein.