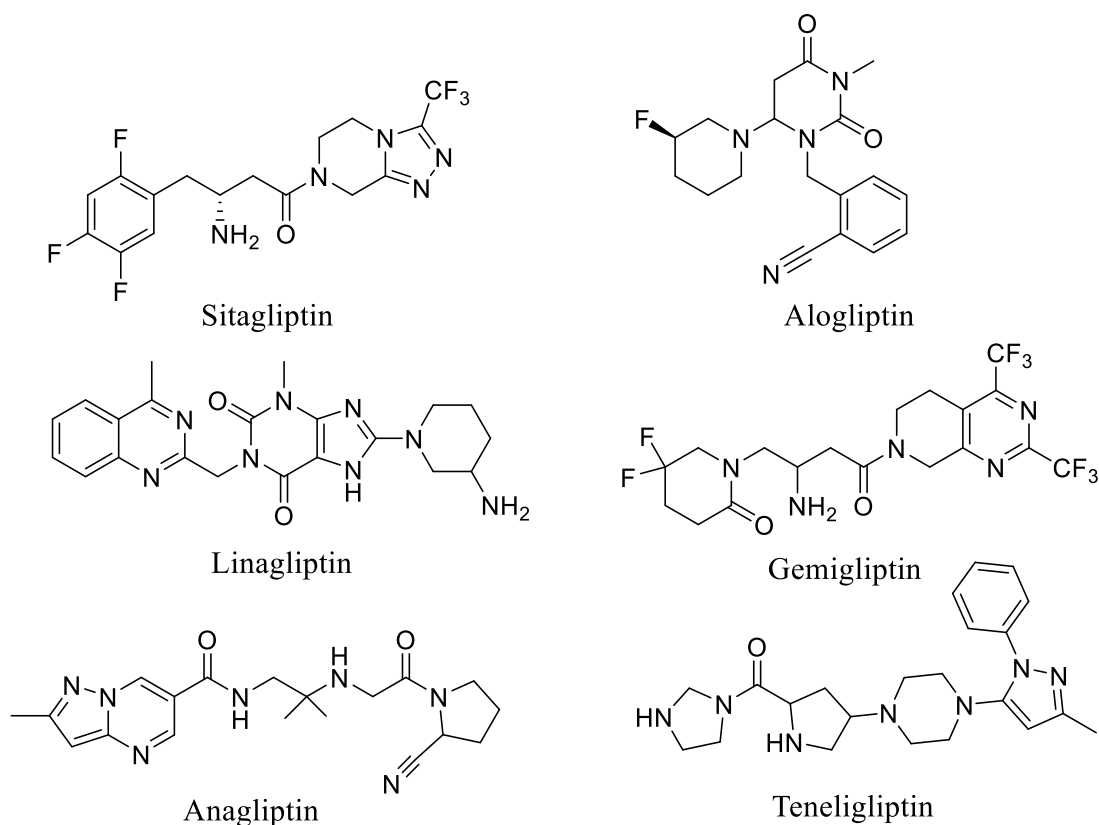


Appendix 1. Dipeptidyl peptidase 4 inhibitors: a review of structure-activity relationship studies



Appendix 1. The chemical structures of well-known DPP-4 inhibitors

Appendix 2. Prevalent DPP-4 sequences with Xaa-Pro/Xaa-Ala bonds and their relative actions.

Substrate	N-terminal Site	Biological Function
GLP-1	His-Ala-Glu-Gly-Thr-Phe	+ Insulin Release; - Glucagon Output
GIP	Tyr-Ala-Asp-Gly-Ser-Phe	+ Insulin secretion; - Glucagon Output
CXCL-12	Lys-Pro-Val	Chemotaxis http://en.wikipedia.org/wiki/Chemotaxis of lymphocytes; Angiogenesis
NPY	Tyr-Pro-Ser	Vasoconstriction; Lipogenesis