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(54) Title: PEPTIDOMIMETICS WITH GLUCAGON ANTAGONISTIC AND GLP-1 AGONISTIC ACTIVITIES

**Figure 1:** *In vitro* Human Glucagon receptor antagonistic activity and GLP-1 receptor agonistic activity with **Seq. ID. No.5.**

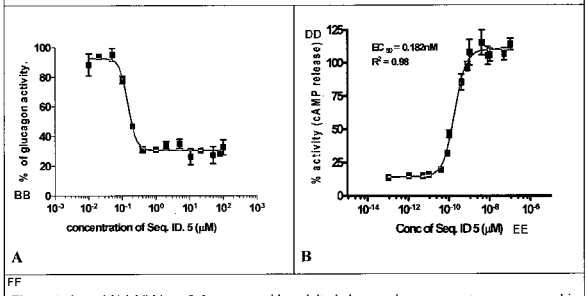



**Figure A** showed % inhibition of glucagon peptide activity in human glucagon receptor overexpressed in CHO cell lines, incubated with different concentration of **Seq. ID 5**; **Figure B** showed % activity (cAMP release) wrt Ex-4, with **Seq. ID 5**, in human GLP-1 receptor overexpressed in CHO cell lines.

(57) Abstract: The present invention provides novel peptidomimetics, of formula (I), which primarily act as glucose dependent insulin secretagogues. Furthermore, it was found that these peptidomimetics showed glucagon receptor antagonistic activity, along with the GLP-I receptor agonistic activity.

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