Methods and Compositions Related to GHS-R Antagonist

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Technology description

Summary

This invention describes that additional functional role for D-Lys3 GHRP-6 (a known GHS-R antagonist, peptide) as a blocker of two well-known chemokine receptors, namely CCR5 and CXCR4. These receptors are major HIV co-receptors and are critical for HIV binding, fusion and entry into human T cells, monocytes, dendritic cells, and various other cells within the body. Moreover, these receptors and their ligands play a major role in inflammation and a variety of acute and chronic disease states. Overall, these two mammalian chemokine receptors are currently major drug targets for treatment of AIDS, cancer and many immunoregulatory disorders. Many identified antagonists block one or the other receptor. Since D-Lys3 GHRP-6 actually binds and blocks both these chemokines receptors at the same time hindering their activity and HIV infectivity, D-Lys3 GHRP-6 may be a good therapeutic candidate for treatment of AIDS and inflammatory diseases.

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