

Corticotropin-releasing factor receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database

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Abstract

Corticotropin-releasing factor (CRF, **nomenclature as agreed by the NC-IUPHAR subcommittee on Corticotropin-releasing Factor Receptors [30]**) receptors are activated by the endogenous peptides [corticotrophin-releasing hormone](#), a 41 amino-acid peptide, [urocortin 1](#), 40 amino-acids, [urocortin 2](#), 38 amino-acids and [urocortin 3](#), 38 amino-acids. CRF₁ and CRF₂ receptors are activated non-selectively by CRH and UCN. CRF₂ receptors are selectively activated by UCN2 and UCN3. Binding to CRF receptors can be conducted using radioligands [¹²⁵I]Tyr⁰-CRF or [¹²⁵I]Tyr⁰-[sauvagine](#) with K_d values of 0.1-0.4 nM. CRF₁ and CRF₂ receptors are non-selectively antagonized by [α-helical CRF](#), [D-Phe-CRF-\(12-41\)](#) and [astressin](#). CRF₁ receptors are selectively antagonized by small molecules [NBI27914](#), [R121919](#), [antalarmin](#), [CP 154,526](#), [CP 376,395](#). CRF₂ receptors are selectively antagonized by [antisauvagine](#) and [astressin 2B](#).

Contents

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Receptors

CRF₁ receptor

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=212>

CRF₂ receptor

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=213>

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