

## Corticotropin-releasing factor receptors in GtoPdb v.2023.1

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### Abstract

Corticotropin-releasing factor (CRF, **nomenclature as agreed by the NC-IUPHAR subcommittee on Corticotropin-releasing Factor Receptors [34]**) 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. CRF<sub>1</sub> and CRF<sub>2</sub> receptors are activated non-selectively by CRH and UCN. CRF<sub>2</sub> receptors are selectively activated by UCN2 and UCN3. Binding to CRF receptors can be conducted using radioligands [<sup>125</sup>I]Tyr<sup>0</sup>-CRF or [<sup>125</sup>I]Tyr<sup>0</sup>-sauvagine with  $K_d$  values of 0.1-0.4 nM. CRF<sub>1</sub> and CRF<sub>2</sub> receptors are non-selectively antagonized by [α-helical CRF](#), [D-Phe-CRF-\(12-41\)](#) and [astressin](#). CRF<sub>1</sub> receptors are selectively antagonized by small molecules [NBI27914](#), [R121919](#), [antalarmin](#), [CP 154,526](#), [CP 376,395](#). CRF<sub>2</sub> receptors are selectively antagonized by [antisauvagine](#) and [astressin 2B](#).

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[Corticotropin-releasing factor receptors](#)

<https://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=19>

[Introduction to Corticotropin-releasing factor receptors](#)

## Receptors

### CRF<sub>1</sub> receptor

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

### CRF<sub>2</sub> receptor

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

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