

Cholecystokinin receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database

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Abstract

Cholecystokinin receptors (**nomenclature as agreed by the NC-IUPHAR Subcommittee on CCK receptors [89]**) are activated by the endogenous peptides cholecystokinin-8 ([CCK-8](#)), [CCK-33](#), [CCK-58](#) and gastrin ([gastrin-17](#)). There are only two distinct subtypes of CCK receptors, CCK₁ and CCK₂ receptors [63, 123], with some alternatively spliced forms most often identified in neoplastic cells. The CCK receptor subtypes are distinguished by their peptide selectivity, with the CCK₁ receptor requiring the carboxyl-terminal heptapeptide-amide that includes a sulfated tyrosine for high affinity and potency, while the CCK₂ receptor requires only the carboxyl-terminal tetrapeptide shared by each CCK and gastrin peptides. These receptors have characteristic and distinct distributions, with both present in both the central nervous system and peripheral tissues.

Contents

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CCK₂ receptor

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