

Apelin receptor (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database

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Abstract

The apelin receptor (**nomenclature as agreed by the NC-IUPHAR Subcommittee on the apelin receptor [68]**) responds to apelin, a 36 amino-acid peptide derived initially from bovine stomach. [apelin-36](#), [apelin-13](#) and [\[Pyr¹\]apelin-13](#) are the predominant endogenous ligands which are cleaved from a 77 amino-acid precursor peptide ([APLN](#), [Q9ULZ1](#)) by a so far unidentified enzymatic pathway [\[80\]](#). A second family of peptides discovered independently and named Elabela [\[11\]](#) or Toddler, that has little sequence similarity to apelin, is present, and functional at the apelin receptor in the adult cardiovascular system [\[87, 67\]](#). Structure-activity relationship Elabela analogues have been described [\[61\]](#).

Contents

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Receptors

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