IUPHAR/BPS Guide to Pharmacology CITE
https://doi.org/10.2218/gtopdb/F52/2019.4

P2Y receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database

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Abstract

P2Y receptors (**nomenclature as agreed by the NC-IUPHAR Subcommittee on P2Y Receptors [3, 5]**) are activated by the endogenous ligands ATP, ADP, uridine triphosphate, uridine diphosphate and UDP-glucose. The relationship of many of the cloned receptors to endogenously expressed receptors is not yet established and so it might be appropriate to use wording such as 'uridine triphosphate-preferring (or ATP-, *etc.*) P2Y receptor' or 'P2Y$_1$-like', *etc.*, until further, as yet undefined, corroborative criteria can be applied [46,109, 187, 375, 388].

Clinically used drugs acting on these receptors include the dinucleoside polyphosphate diquafosol, agonist of the P2Y$_2$ receptor subtype, approved in Japan for the management of dry eye disease [236], and the P2Y$_{12}$ receptor antagonists prasugrel, ticagrelor and cangrelor, all approved as antiplatelet drugs [52, 316].

Contents

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