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

Maria-Pia Abbracchio[1], Jean-Marie Boeynaems[2], José L. Boyer[3], Geoffrey Burnstock[4], Stefania Ceruti[1], Marta Fumagalli[1], Christian Gachet[5], Rebecca Hills[6], Robert G. Humphries[7], Kazu Inoue[8], Kenneth A. Jacobson[9], Charles Kennedy[10], Brian F. King[4], Davide Lecca[1], Christa E. Müller[11], Maria Teresa Miras-Portugal[12], Vera Ralevic[13] and Gary A. Weisman[14]

1. University of Milan, Italy
2. Université Libre de Bruxelles, Belgium
3. University of North Carolina, USA
4. Royal Free Hospital School of Medicine, UK
5. INSERM, France
6. University of Edinburgh, UK
7. AstraZeneca, UK
8. University of Kyushu, Japan
9. National Institutes of Health, USA
10. University of Strathclyde, UK
11. Universität Bonn, Germany
12. Universidad Complutense de Madrid, Spain
13. University of Nottingham, UK
14. University of Missouri, USA

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 receptor, and the P2Y receptor antagonists prasugrel, ticagrelor and cangrelor, all approved as antiplatelet drugs [22, 24].

Contents

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