**Table 1**. Structures of P2XRs including the method, construct and state (with ligands when indicated) at which they have been obtained. ∆NX and ∆CX denotes the number of residues being truncated in the N- and C-termini, respectively.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PDB ID | P2XR (species) | Method | Construct | State | Reference |
| 2RUP | P2X4 (rat) | NMR | Head domain only | n.a. | (Igawa et al., 2015) |
| 3H9V | P2X4 (zebrafish) | X-ray | ∆N27 ∆C8 | Apo, closed channel | (Kawate et al., 2009) |
| 3I5D | P2X4 (zebrafish) | X-ray | ∆N27 ∆C8  N78K/N187R/C51F | Apo, closed channel | (Kawate et al., 2009) |
| 4DWO | P2X4 (zebrafish) | X-ray | ∆N27 ∆C8  N78K/N187R/C51F | Apo, closed channel | (Hattori & Gouaux, 2012) |
| 4DW1 | P2X4 (zebrafish) | X-ray | ∆N27 ∆C24  N78K/N187R | ATP-bound, open channel | (Hattori & Gouaux, 2012) |
| 5F1C | amP2X (Gulf Coast tick) | X-ray | ∆N23 ∆C7  N171Q/C374L | ATP-bound, open channel | (Kasuya et al., 2016) |
| 5SVJ | P2X3 (human) | X-ray | ∆N5 ∆C33  T13P/S15V/V16I | Apo, closed channel | (Mansoor et al., 2016) |
| 5SVK | P2X3 (human) | X-ray | ∆N5 ∆C33  T13P/S15V/V16I | ATP-bound, open channel | (Mansoor et al., 2016) |
| 5SVL | P2X3 (human) | X-ray | ∆N5 ∆C33 | ATP-bound, desensitized channel | (Mansoor et al., 2016) |
| 5SVM | P2X3 (human) | X-ray | ∆N5 ∆C33 | 2-methylthio-ATP-bound, desensitized channel | (Mansoor et al., 2016) |
| 5SVP | P2X3 (human) | X-ray | ∆N5 ∆C33 | 2-methylthio-ATP-bound, desensitized channel | (Mansoor et al., 2016) |
| 5SVQ | P2X3 (human) | X-ray | ∆N5 ∆C33  T13P/S15V/V16I | TNP-ATP-bound, closed channel | (Mansoor et al., 2016) |
| 5SVR | P2X3 (human) | X-ray | ∆N5 ∆C33  T13P/S15V/V16I | A-3174491-bound, closed channel | (Mansoor et al., 2016) |
| 5U1L | P2X7 (giant panda) | X-ray | ∆21 ∆C240  N241S/N284S/V35A/R125A/E174K | Apo, closed channel | (Karasawa & Kawate, 2016) |
| 5U1U | P2X7 (giant panda) | X-ray | ∆21 ∆C240  N241S/N284S/V35A/R125A/E174K | A740003-bound, closed channel | (Karasawa & Kawate, 2016) |
| 5U1V | P2X7 (giant panda) | X-ray | ∆21 ∆C240  N241S/N284S/V35A/R125A/E174K | A804598-bound, closed channel | (Karasawa & Kawate, 2016) |
| 5U1W | P2X7 (giant panda) | X-ray | ∆21 ∆C240  N241S/N284S/V35A/R125A/E174K | AZ10606120-bound, closed channel | (Karasawa & Kawate, 2016) |
| 5U1X | P2X7 (giant panda) | X-ray | ∆21 ∆C240  N241S/N284S/V35A/R125A/E174K | JNJ47965567-bound, closed channel | (Karasawa & Kawate, 2016) |
| 5U1Y | P2X7 (giant panda) | X-ray | ∆21 ∆C240  N241S/N284S/V35A/R125A/E174K | GW791343-bound, closed channel | (Karasawa & Kawate, 2016) |
| 5U2H | P2X7 (giant panda) | X-ray | ∆21 ∆C240  N241S/N284S/V35A/R125A/E174K | ATP-, A804598-bound, closed channel | (Karasawa & Kawate, 2016) |
| 5WZY | P2X4 (zebrafish) | X-ray | ∆N27 ∆C24  N78K/N187R | CTP-bound, closed channel | (Kasuya et al., 2017a) |
| 5XW6 | P2X7 (chicken) | X-ray | ∆N27 ∆C214  N190Q | TNP-ATP-bound, closed channel | (Kasuya et al., 2017b) |
| 5YVE | P2X3 (human) | X-ray | ∆N5 ∆C33  T13P/S15V/V16I | AF-219-bound, closed channel | (Wang et al., 2018) |
| 6AH4 | P2X3 (human) | X-ray | ∆N5 ∆C33  T13P/S15V/V16I | Ca2+-ATP-bound, open channel | (Li et al., 2019) |
| 6AH5 | P2X3 (human) | X-ray | ∆N5 ∆C33  T13P/S15V/V16I | Mg2+-ATP-bound, open channel | (Li et al., 2019) |
| 6U9V | P2X7 (rat) | Cryo-EM | Wild-type full length | Apo, closed channel | (McCarthy et al., 2019) |
| 6U9W | P2X7 (rat) | Cryo-EM | Wild-type full length | ATP-bound, open channel | (McCarthy et al., 2019) |

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