

### Purines

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|  |   |   |
|--|---|---|
| Adenosine  | ADP<br>(Adenosine<br>Diphos-<br>phate)  | ATP<br>(Adenosine<br>Triphos-<br>phate)                                 |
| - Formed<br>from the<br>breakdown<br>of ATP.   | - Plays a<br>critical role<br>in platelet<br>aggreg-<br>ation.                                | - Acts via<br>P2<br>receptors<br>(P2X and<br>P2Y)                       |
| - Acts via<br>adenosine<br>receptors<br>(A1, A2A,<br>A2B, A3)  | - Released<br>during<br>tissue<br>injury -><br>binds to<br>P2Y12<br>receptors<br>on platelets | - Mediates<br>pain,<br>inflam-<br>mation and<br>immune<br>response      |
| -<br>Functions<br>include:<br>Vasodi-<br>lation,<br>Sedative<br>effects in<br>brain,<br>Inhibition<br>of neurot-<br>ransmitter<br>release,<br>Antinflamm-<br>atory | - Promotes<br>clot<br>formation   | - Can<br>trigger cell<br>death<br>pathways<br>or survival<br>signalling |



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Page 2 of 2.

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