

P2Y1

P2Y purinoceptor 1 is a protein that in humans is encoded by the P2RY1 gene.

The product of this gene, [P2Y1](#) belongs to the family of G-protein coupled receptors. This family has several receptor subtypes with different pharmacological selectivity, which overlaps in some cases, for various [adenosine](#) and uridine nucleotides. This receptor functions as a receptor for extracellular [ATP](#) and [ADP](#). In [platelets](#) binding to ADP leads to mobilization of intracellular calcium ions via activation of phospholipase C, a change in platelet shape, and probably to platelet aggregation.

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