

P2Y1 Protein, Human (Sf9, FLAG, His)

Cat. No.:	HY-P701630
Synonyms:	P2RY1; P2Y purinoceptor 1; P2Y1; ADP receptor; Purinergic receptor
Species:	Human
Source:	Sf9 insect cells
Accession:	P47900 (T2-L373)
Gene ID:	5028
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	The P2Y1 receptor serves as a receptor for extracellular adenine nucleotides, particularly ADP. Upon binding to ADP, this receptor, found notably in platelets, triggers the mobilization of intracellular calcium ions through the activation of phospholipase C. Consequently, this activation induces changes in platelet shape and, ultimately, platelet aggregation. ATP acts as an antagonist, inhibiting the ADP-induced mobilization of calcium ions. Specific antagonists of the P2Y1 receptor, such as A3P5PS, A3P5P, and A2P5P, have been identified and shown to impede downstream signaling events mediated by the mobilization of calcium ions from intracellular stores, as well as platelet shape changes in response to extracellular ADP.
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Caution: Product has not been fully validated for medical applications. For research use only.

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