YM-254890

Cat. No.: HY-111557
CAS No.: 568580-02-9
Molecular Formula: C₄₆H₆₉N₇O₁₅
Molecular Weight: 960.08
Target: P2Y Receptor
Pathway: GPCR/G Protein
Storage: Powder -20°C 3 years
In solvent -80°C 6 months

In Vitro YM-254890 inhibits platelet aggregation induced by ADP (2, 5 and 20 μM) in human platelet-rich plasma with IC₅₀ values of 0.37, 0.39 and 0.51 μM. ADP mediates platelet aggregation via two G protein-coupled receptors, P2Y₁ and P2Y₁₂. The effect of YM-254890 on the P2Y₁ and P2Y₁₂ signal transduction pathways using C6-15 cells stably expressing the human P2Y₁ or P2Y₁₂ receptors is examined. Stimulation of P2Y₁-C6-15 cells by 2MeSADP leads to increases in intracellular calcium mobilization. In this assay, YM-254890 inhibits the increase in [Ca²⁺] with an IC₅₀ value of 0.031 μM. In contrast, 2MeSADP-induced inhibition of forskolin-stimulated adenylyl cyclase activity in P2Y₁₂-C6-15 cells is unaffected by YM-254890 at 40 μM.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.

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