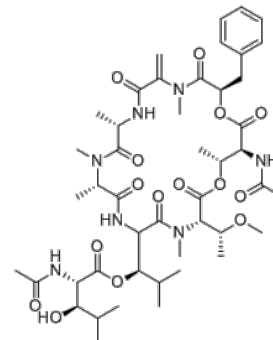


Product Name : YM-254890
Cat. No. : PC-62046
CAS No. : 568580-02-9
Molecular Formula : C₄₆H₆₉N₇O₅
Molecular Weight : 960.08
Target : P2Y Receptor
Solubility : 10 mM in DMSO



Biological Activity

YM-254890 is a selective **Gq signaling** inhibitor that strongly inhibits intracellular calcium ion mobilization and serum response element (SRE)-mediated transcription stimulated by several receptors coupled to Gq, but not those coupled to Gi, Gs, or G15.

YM 254890 also exhibits antithrombotic and thrombolytic effects in an electrically induced carotid artery thrombosis model in rats.

YM 254890 inhibits ADP-induced platelet aggregation in human platelet-rich plasma with an IC₅₀ of <0.6 μM by blocking the P2Y₁ receptor-signal transduction pathway.

References

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Takasaki J, et al. *J Biol Chem*. 2004 Nov 12;279(46):47438-45.

Taniguchi M, et al. *J Antibiot (Tokyo)*. 2003 Apr; 56(4):358-63.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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