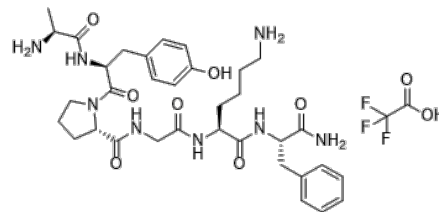


Product Name : PAR4-AP TFA
Cat. No. : PC-27324
CAS No. : 1228078-65-6
Molecular Formula : C₃₄H₄₈N₈O₇
Molecular Weight : 680.81
Target : Protease-activated Receptor (PAR)
Solubility : 10 mM in DMSO



Biological Activity

PAR4 Agonist Peptide AYPGKF-NH₂ TFA (PAR4-AP) is a potent, PAR4-selective agonist peptide, stimulates platelet aggregation in vitro with EC₅₀ of 15 uM, shows no significant interaction with either PAR1 or PAR2. AYPGKF activates and desensitizes PAR4 in platelets and, like thrombin, triggers phosphoinositide hydrolysis but not inhibition of adenylyl cyclase in PAR4-expressing cells.

AYPGKF is more potent than the native GYPGKF sequence at stimulating PAR4-mediated phosphoinositide hydrolysis. AYPGKF effectively desensitizes PAR4-mediated signaling in human platelets.

References

Zhikang Xu, et al. Cell Rep. 2026 Jun 30;45(7):117632.

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

E-mail: tech@probechem.com