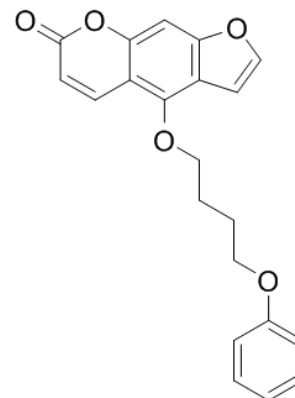


Product Name : PAP-1
Cat. No. : PC-42069
CAS No. : 870653-45-5
Molecular Formula : C₂₁H₁₈O₅
Molecular Weight : 350.3646
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

PAP-1 is a potent, selective small molecule lymphocyte K⁺ channel **Kv1.3** blocker with EC₅₀ of 2 nM. PAP-1 displays 23-fold selectivity over Kv1.5, 33- to 125-fold selectivity over other Kv1-family channels, and 500- to 7500-fold selectivity over Kv2.1, Kv3.1, Kv3.2, Kv4.2, HERG, calcium-activated K⁺ channels, Na⁺, Ca²⁺, and Cl⁻ channels. PAP-1 potently inhibits the proliferation of human TEM cells and suppresses delayed type hypersensitivity, a TEM cell-mediated reaction, in rats; orally bioavailable.

References

- Schmitz A, et al. *Mol Pharmacol*. 2005 Nov;68(5):1254-70.
Kundu-Raychaudhuri S, et al. *J Autoimmun*. 2014 Dec;55:63-72.
Azam P, et al. *J Invest Dermatol*. 2007 Jun;127(6):1419-29.

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

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