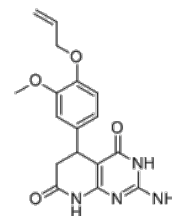

Product Name	: PA-8
Cat. No.	: PC-72883
CAS No.	: 878437-15-1
Molecular Formula	: C ₁₇ H ₁₈ N ₄ O ₄
Molecular Weight	: 342.36
Target	: Vasoactive intestinal peptide receptor (VIPR)
Solubility	: 10 mM in DMSO



Biological Activity

PA-8 (PAC1 antagonist PA-8) is a potent, specific small molecule antagonist of **PACAP type I (PAC1) receptor**.

PA-8 (1 nM) significantly and dose dependently attenuated PACAP (1 nM)-induced CREB phosphorylation in the CHO cells expressing PAC1, but not CHO cells expressing VPAC1, or VPAC2 receptors.

PA-8 also dose dependently inhibited PACAP-induced cAMP elevation with an IC₅₀ of 2 nM.

PA-8 blocked PACAP-induced aversive responses and mechanical allodynia in mice.

References

Takasaki I, et al. *J Pharmacol Exp Ther*. 2018 Apr;365(1):1-8.

Takasaki I, et al. *J Pharmacol Sci*. 2019 Feb;139(2):129-132.

Shibato J, et al. *Neural Plast*. 2021 Aug 7;2021:2522454.

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

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