AP 811 acetate

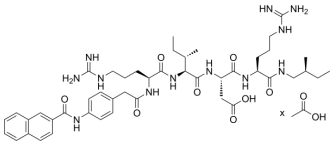
Cat. No.: HY-P1419A

Molecular Formula: $C_{46}H_{66}N_{12}O_8.xC_2H_4O_2$

Target: Others

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AP 811 acetate is a selective atrial natriuretic peptide clearance receptor (ANP-CR, NPR3) antagonist with a K_i of 0.48 nM. AP 811 acetate displays >20000-fold selectivity for NPR3 over NPR1. AP 811 acetate abolishes ANP-induced pump stimulation[1] [2].
IC_{50} & Target	Ki: 0.48 nM (NPR3)[1]
In Vitro	In proliferating cardiomyocytes, AP 811 acetate (10-500 nM) could completely abolish the enhanced cardiomyocyte proliferation seen with low concentration ANP (10 nM)[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Veale CA, et al. The discovery of non-basic atrial natriuretic peptide clearance receptor antagonists. Part 1. Bioorg Med Chem Lett. 2000;10(17):1949-1952.

[2]. William M, et al. Natriuretic peptides stimulate the cardiac sodium pump via NPR-C-coupled NOS activation. Am J Physiol Cell Physiol. 2008;294(4):C1067-C1073.

[3]. Jason R Becker, et al. Differential activation of natriuretic peptide receptors modulates cardiomyocyte proliferation during development. Development. 2014 Jan;141(2):335-45.

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