Product Data Sheet

Product Name: AP 811
Cat. No.: GC50183

Chemical Properties

Cas. No.	124833-45-0		
SMILES	CC[C@H](C)CNC(=O)[C@H](CCCNC(N)=N)NC(=O)[C@H](CC(O)=O)NC(=O)[C@@H](NC(=O)[C@H](CCCNC(N)=N)NC(=O)CC1=CC=C(NC(=O)C2=CC3=C(C=CC=C3)C=C2)C=C1)[C@@H](C)CC		
Formula	$C_{46}H_{66}N_{12}O_8$	M.Wt	915.1
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	AP 811		

Background

High affinity, selective ANP clearance receptor (NPR3) antagonist (Ki = 0.45 nM). Exhibits >20,000-fold selectivity for NPR3 over NPR1. Inhibits ANP-stimulated Na+/K+ pump activity in rabbit ventricular cardiomyocytes in vitro. Also blocks proliferation of rodent neonatal cardiomyocytes seen at low ANP concentrations in vitro.

Veale et al (2000) The discovery of non-basic atrial natriuretic peptide clearance receptor antagonists. Part 1. Bioorg.Med.Chem.Lett. 10 1949 PMID:10987424 |William et al (2008) Natriuretic peptides stimulate the cardiac sodium pump via NPR-C-coupled NOS activation. Am.J.Physiol.Cell Physiol. 294 C1067 PMID:18272821 |Becker et al (2014) Differential activation of natriuretic peptide receptors modulates cardiomyocyte proliferation during development. Development 141 335 PMID:24353062

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