

ANGIOTENSIN IV TFA(12676-15-2(free base))

Chemical Properties

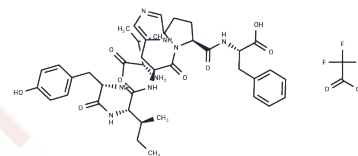
CAS No. :

Formula: C42H55F3N8O10

Molecular Weight: 888.92

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	ANGIOTENSIN IV TFA is a less effective agonist at the angiotensin AT1 receptor.
Targets(IC50)	RAAS
In vivo	Rats with CCH exhibited higher levels of Aβ42, p-tau and pro-inflammatory cytokines in the brain when compared with controls. Infusion of Ang IV significantly reduced the expression of pro-inflammatory cytokines in the brains of rats with CCH. Meanwhile, the reduction of pro-inflammatory cytokines levels caused by Ang IV was reversed by divalinal-Ang IV. During the treatment, the SBP in rats was not significantly altered[1]
Animal Research	Eight weeks after bilateral CCA ligation surgery, rats were anaesthetized with 10% chloral hydrate and placed in a stereotactic frame. The scalp was reflected under sterile surgical conditions. A brain-infusion cannula coupled via vinyl tubing to an osmotic pump was implanted into the third cerebral ventricle by surgeons who were blinded to the experimental groups. Osmotic pumps were placed subcutaneously between the scapulae and used to infuse two doses of Ang IV (20 nM, 0.15 μl/h and 100 nM, 0.15 μl/h), divalinal-Ang IV (500 nM, 0.15 μl/h) or aCSF (0.15 μl/h) into the third cerebral ventricle, lasting for six weeks. Following this surgery, the wounds were carefully closed with sutures[1]

Solubility Information

Solubility	DMSO: 25 mg/mL (28.12 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.125 mL	5.6248 mL	11.2496 mL
5 mM	0.225 mL	1.125 mL	2.2499 mL
10 mM	0.1125 mL	0.5625 mL	1.125 mL
50 mM	0.0225 mL	0.1125 mL	0.225 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wang QG, Xue X, Yang Y, et al. Angiotensin IV suppresses inflammation in the brains of rats with chronic cerebral hypoperfusion[J]. J Renin Angiotensin Aldosterone Syst. 2018 Jul-Sep;19(3):1470320318799587.

Park B M , Cha S A , Lee S H , et al. Angiotensin IV protects cardiac reperfusion injury by inhibiting apoptosis and inflammation via AT4R in rats[J]. Peptides, 2016, 79:66-74.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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