

R 715 TFA

Chemical Properties

CAS No. :

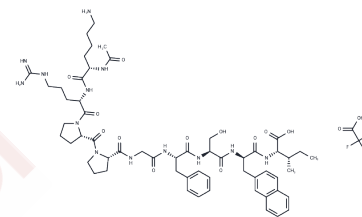
Formula: C57H81N13O12.XCF3COOH

Molecular Weight: 1140.33

Keep away from moisture

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

R 715, a bradykinin B1 receptor antagonist, inhibits contractions in isolated human umbilical cords that express bradykinin B1 receptors ($pA_2 = 8.49$). When administered at doses of 200, 400, and 600 $\mu\text{g}/\text{kg}$, R 715 enhances latency to tail withdrawal in the tail-flick test for diabetic neuropathy mouse models induced by streptozotocin (STZ), signaling potential analgesic properties. Furthermore, at a 1 mg/kg per day dosage, it mitigates symptoms in a mouse model of experimental autoimmune encephalomyelitis (EAE) induced by MOG35-55 antigen peptide, such as reducing hind limb weakness and paralysis, improving gait symmetry, and decreasing spinal inflammation, neuron demyelination, and lesion monocyte invasion. Additionally, R 715 at 0.01 nmol/animal, administered intracerebroventricularly (i.c.v.), lowers mean arterial blood pressure and increases heart rate in spontaneously hypertensive rats, indicating cardiovascular effects.

Solubility Information

Solubility

Ethanol: 20 mg/mL (17.54 mM), Sonication is recommended.
 DMSO: 30 mg/mL (26.31 mM), Sonication is recommended.
 PBS pH 7.2: 5 mg/mL (4.38 mM), Sonication is recommended.
 DMF: 30 mg/mL (26.31 mM), Sonication is recommended.
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8769 mL	4.3847 mL	8.7694 mL
5 mM	0.1754 mL	0.8769 mL	1.7539 mL
10 mM	0.0877 mL	0.4385 mL	0.8769 mL
50 mM	0.0175 mL	0.0877 mL	0.1754 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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