

K 41498 TFA

Chemical Properties

CAS No. :

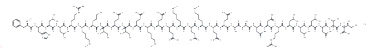
Formula: C162H276N48O46.XCF3COOH

Molecular Weight: 3632.22

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

K 41498 is a selective peptide antagonist targeting both corticotropin-releasing factor receptor 2 α (CRF2 α) and CRF2 β , demonstrating high affinity with K_i of 0.66 and 0.62 nM, respectively, in HEK293 cells expressing these human receptors. Its selectivity is evident as it exhibits a significantly reduced affinity for CRF1 receptor (K_i = 425 nM in HEK293 cells expressing the human CRF1 receptor). Additionally, K 41498, when administered intravenously at 1.84 μ g/animal, effectively mitigates urocortin-induced hypotension in rats. Furthermore, its intrathecal delivery ranging from 0.075 to 0.5 μ mol/animal significantly lowers the mechanical paw withdrawal threshold in a rat model, indicating its potential utility in managing nociception triggered by complete Freund's adjuvant.

Solubility Information

Solubility

H2O: Soluble
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2753 mL	1.3766 mL	2.7531 mL
5 mM	0.0551 mL	0.2753 mL	0.5506 mL
10 mM	0.0275 mL	0.1377 mL	0.2753 mL
50 mM	0.0055 mL	0.0275 mL	0.0551 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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