

Angiotensin II 5-valine TFA

Chemical Properties

CAS No. :

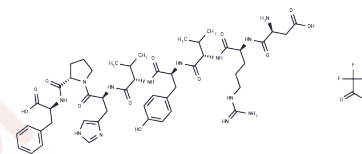
Formula: C51H70F3N13O14

Molecular Weight: 1146.18

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	Angiotensin II 5-valine TFA is an agonist of angiotensin receptor.
Targets(IC50)	RAAS
In vivo	By day 12, systolic blood pressure (SBP) increased significantly in Val5-ANG II infused rats (197 +/- 7 mm Hg). As previously shown, the development of hypertension in ANG II infused rats was prevented by losartan treatment. Blood and kidney samples were harvested, subjected to HPLC to separate Val5-ANG II (exogenous) from Ile5-ANG II (endogenous) and the fractions were measured by radioimmunoassay. In the Val5-ANG II infused rats treated with losartan, total plasma ANG II levels were elevated to a greater extent than in rats not treated with losartan (289 +/- 20 v 119 +/- 14 fmol/mL). However, losartan markedly decreased by 88% the enhancement of intrarenal Val5-ANG II content that occurred in the rats infused with Val5-ANG II alone. These results demonstrate that AT1 receptor blockade markedly reduces the intrarenal uptake of circulating ANG II that occurs in ANG II induced hypertension.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8725 mL	4.3623 mL	8.7246 mL
5 mM	0.1745 mL	0.8725 mL	1.7449 mL
10 mM	0.0872 mL	0.4362 mL	0.8725 mL
50 mM	0.0174 mL	0.0872 mL	0.1745 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

Zou LX et al. Renal uptake of circulating angiotensin II in Val5-angiotensin II infused rats is mediated by AT1 receptor. Am J Hypertens. 1998 May;11(5):570-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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