

Angiotensin II 5-valine

Chemical Properties

CAS No.:	58-49-1
Formula:	N/A
Molecular Weight:	N/A
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	ngiotensin II 5-valine is an angiotensin II analog which is an agonist at angiotensin receptors.
In vivo	By day 12, systolic blood pressure (SBP) increases significantly in Angiotensin II 5-valine infused rats (197 ± 7 mm Hg). As shown, the development of hypertension in ANG II infused rats is prevented by losartan treatment. Blood and kidney samples are harvested, subjected to HPLC to separate Angiotensin II 5-valine (exogenous) from Ile5-ANG II (endogenous) and the fractions are measured by radioimmunoassay. In the Angiotensin II 5-valine infused rats treated with losartan, total plasma ANG II levels are elevated to a greater extent than in rats not treated with losartan (289 ± 20 v 119 ± 14 fmol/mL). However, losartan markedly decrease by 88% the enhancement of intrarel Val5-ANG II content that occurred in the rats infused with Val5-ANG II alone[1].

Solubility Information

Solubility	H2O: 257.5 mg/mL (249.48 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

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