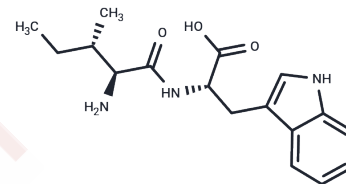


BNC210

Chemical Properties

CAS No. :	13589-06-5
Formula:	C ₁₇ H ₂₃ N ₃ O ₃
Molecular Weight:	317.38
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	BNC210 (IW-2143) is a $\alpha 7$ nAChR negative allosteric modulator. BNC210 has potent activity in animal models of anxiety and depression.
Targets(IC50)	AChR, Angiotensin-converting Enzyme (ACE)

Solubility Information

Solubility	DMSO: 125 mg/mL (393.85 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (12.6 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1508 mL	15.754 mL	31.508 mL
5 mM	0.6302 mL	3.1508 mL	6.3016 mL
10 mM	0.3151 mL	1.5754 mL	3.1508 mL
50 mM	0.063 mL	0.3151 mL	0.6302 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

Toby Wise, et al. Cholinergic Modulation of Disorder-Relevant Neural Circuits in Generalised Anxiety Disorder (GAD) by BNC210, a negative allosteric modulator of $\alpha 7$ nAChR.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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