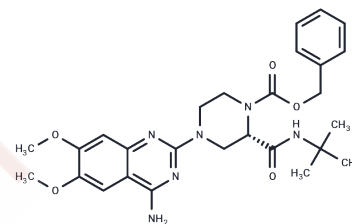


L-765314

Chemical Properties

CAS No. : 189349-50-6
 Formula: C₂₇H₃₄N₆O₅
 Molecular Weight: 522.6
 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	L-765314 is a drug which acts as a potent and selective antagonist for the Alpha-1 adrenergic receptor subtype α 1B. It has mainly been used to investigate the role of α 1B receptors in the regulation of blood pressure.
Targets(IC50)	Adrenergic Receptor
In vivo	L-765314 shows weak potency for inhibiting the pressor response to either phenylephrine or A-61603 (AD ₂₅ >3 mg/kg for each).?On the basis of the inhibition of pressor responses to the R1a subtype selective agonist A-61603, L-765314 appears to be selective versus the R1a receptor up to a dose of 0.3 mg/kg.?The results of hypotensive potency in rats show that both L-765314 and terazosin tend to decrease heart rate (about 25 bpm at 1 mg/kg iv)[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (95.68 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: 2 mg/mL (3.83 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	1.9135 mL	9.5675 mL	19.1351 mL
5 mM	0.3827 mL	1.9135 mL	3.827 mL
10 mM	0.1914 mL	0.9568 mL	1.9135 mL
50 mM	0.0383 mL	0.1914 mL	0.3827 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

Patane MA, et al. 4-Amino-2-[4-[1-(benzyloxycarbonyl)-2(S)- [(1,1-dimethylethyl)amino]carbonyl]-piperazinyl]-6, 7-dimethoxyquinazoline (L-765,314): a potent and selective α 1b adrenergic receptor antagonist. J Med Chem. 1998 Apr 9;41(8):1205-8.

Kim J , Kim Y H , Bang S , et al. L-765,314 Suppresses Melanin Synthesis by Regulating Tyrosinase Activity[J]. Molecules, 2019, 24(4).

Tobias Böhmer, et al. The α 1B-adrenoceptor subtype mediates adrenergic vasoconstriction in mouse retinal arterioles with damaged endothelium. Br J Pharmacol. 2014 Aug; 171(16): 3858-3867.

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