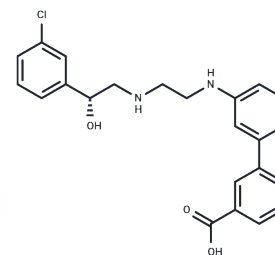


Solabegron

Chemical Properties

CAS No. :	252920-94-8
Formula:	C ₂₃ H ₂₃ ClN ₂ O ₃
Molecular Weight:	410.89
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	Solabegron (GW 427353) is a selective β_3 -adrenergic receptor agonist that promotes cAMP accumulation in Chinese hamster ovary cells expressing the human β_3 -AR (EC ₅₀ : 22 nM). It is used to treat overactive bladder and irritable bowel syndrome.
Targets(IC ₅₀)	Adrenergic Receptor
In vivo	Solabegron(3 mg/kg i.v.)evokes an increase in micturition volume threshold that prevented the acetic acid-evoked decreases in dogs.

Solubility Information

Solubility	DMSO: 250 mg/mL (608.44 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: 5 mg/mL (12.17 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	2.4337 mL	12.1687 mL	24.3374 mL
5 mM	0.4867 mL	2.4337 mL	4.8675 mL
10 mM	0.2434 mL	1.2169 mL	2.4337 mL
50 mM	0.0487 mL	0.2434 mL	0.4867 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

Hicks A, et al. GW427353 (solabegron), a novel, selective beta3-adrenergic receptor agonist, evokes bladder relaxation and increases micturition reflex threshold in the dog. *J Pharmacol Exp Ther.* 2007 Oct;323(1):202-9.
Andersson KE, et al. Selective β 3-adrenoceptor agonists for the treatment of overactive bladder. *J Urol.* 2013 Oct; 190(4):1173-80.

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