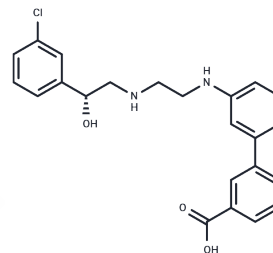


Solabegron

Chemical Properties

CAS No. :	252920-94-8
Formula:	C ₂₃ H ₂₃ ClN ₂ O ₃
Molecular Weight:	410.89
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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)
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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.

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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