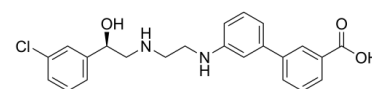


Data Sheet

Product Name:	Solabegron
Cat. No.:	CS-0015536
CAS No.:	252920-94-8
Molecular Formula:	C ₂₃ H ₂₃ ClN ₂ O ₃
Molecular Weight:	410.89
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : ≥ 33.33 mg/mL (81.12 mM)



BIOLOGICAL ACTIVITY:

Solabegron (GW 427353) is a selective **β₃-adrenergic receptor** agonist, stimulating cAMP accumulation in Chinese hamster ovary cells expressing the human β₃-AR, with an **EC₅₀** value of 22 nM^[1]. Solabegron (GW 427353) is being developed for the treatment of overactive bladder and irritable bowel syndrome^[1]. IC₅₀ & Target: EC₅₀: 22 nM (β₃-AR in cells)^[1]. *In Vivo*: Solabegron (GW427353) at 3 mg/kg i.v. evokes an increase in micturition volume threshold that prevented the acetic acid-evoked decreases in dogs. The low dose (1 mg/kg) shows no significant activity^[1].

References:

[1]. 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.

[2]. Andersson KE, et al. Selective β3-adrenoceptor agonists for the treatment of overactive bladder. J Urol. 2013 Oct;190(4):1173-80.

CAIndexNames:

[1,1'-Biphenyl]-3-carboxylic acid, 3'-[[2-[[[(2R)-2-(3-chlorophenyl)-2-hydroxyethyl]amino]ethyl]amino]-

SMILES:

O=C(C1=CC=C(C2=CC=CC(NCCNC[C@@H](C3=CC=CC(Cl)=C3)O)=C2)=CC=C1)O

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA