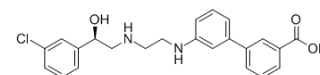


Solabegron

| | |
|--------------------|---|
| Cat. No.: | HY-19436 |
| 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 |
| Storage: | Please store the product under the recommended conditions in the COA. |



BIOLOGICAL ACTIVITY

| | | | | | | | | | |
|-------------------------------------|---|----------------------|---|----------------|-------------|------------------------|------------|----------------|---|
| Description | Solabegron (GW 427353) is a selective β_3 -adrenergic receptor agonist, stimulating cAMP accumulation in Chinese hamster ovary cells expressing the human β_3 -AR, with an EC ₅₀ value of 22 nM ^[1] . Solabegron (GW 427353) is being developed for the treatment of overactive bladder and irritable bowel syndrome ^[1] . | | | | | | | | |
| IC₅₀ & Target | EC ₅₀ : 22 nM (β_3 -AR in cells) ^[1] . | | | | | | | | |
| In Vivo | <p>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].</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Adult female beagle dogs (6-10 kg)^[1].</td> </tr> <tr> <td>Dosage:</td> <td>1, 3 mg/kg.</td> </tr> <tr> <td>Administration:</td> <td>I.V. once.</td> </tr> <tr> <td>Result:</td> <td>Dosage of 3 mg/kg evoked an increase in micturition volume threshold.</td> </tr> </table> | Animal Model: | Adult female beagle dogs (6-10 kg) ^[1] . | Dosage: | 1, 3 mg/kg. | Administration: | I.V. once. | Result: | Dosage of 3 mg/kg evoked an increase in micturition volume threshold. |
| Animal Model: | Adult female beagle dogs (6-10 kg) ^[1] . | | | | | | | | |
| Dosage: | 1, 3 mg/kg. | | | | | | | | |
| Administration: | I.V. once. | | | | | | | | |
| Result: | Dosage of 3 mg/kg evoked an increase in micturition volume threshold. | | | | | | | | |

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 β_3 -adrenoceptor agonists for the treatment of overactive bladder. *J Urol.* 2013 Oct;190(4):1173-80.

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

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