Product Datasheet

Gemigliptin

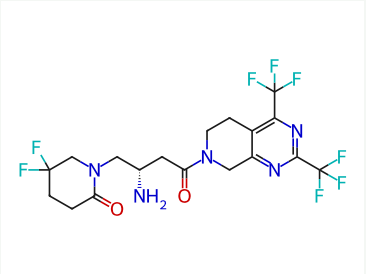
Catalog No. **BP-00061** · CAS **911637-19-9** · Form **free base** · Physical state **other** · Color **white to orange** · Version **1.0** · Revision **2026-11-04**

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Target	Research area
Dipeptidyl Peptidase	**Metabolic DiseaseCancer**

Molecular formula	$C_{18}H_{19}F_8N_5O_2$
Molecular weight	**489.3630**

STRUCTURE



DESCRIPTION

Gemigliptin (LC15-0444) is a highly selective, reversible and competitive dipeptidyl peptidase-4 (DPP-4) inhibitor, with an IC50 of 10.3 nM for human recombinant DPP-4.

BIOLOGICAL ACTIVITY

In Vitro

Gemigliptin dose-dependently inhibits the formation of AGE-BSA with IC50 of 11.69 mM[1].

Gemigliptin dose-dependently suppressed the cross-linking of preformed AGE-BSA with rat tail tendon collagen with an IC50 of 1.39 mM[1].

Gemigliptin is a competitive inhibitor with a Ki of 7.25 nM[2].

In Vivo

Gemigliptin (100 mg/kg; i.g.; daily; for 12 weeks) inhibits AGEs formation and AGE cross-links in vivo[1].

Gemigliptin dose-dependently inhibits plasma DPP-4 activity in rats, dogs, and monkeys[2].

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Jung E, et al. Gemigliptin, a novel dipeptidyl peptidase-4 inhibitor, exhibits potent anti-glycation properties in vitro and in vivo. Eur J Pharmacol. 2014 Dec 5;744:98-102.

[2]. Kim SH, et al. Pharmacological profiles of gemigliptin (LC15-0444), a novel dipeptidyl peptidase-4 inhibitor, in vitro and in vivo. Eur J Pharmacol. 2016 Oct 5;788:54-64.

Tel: +86 20 31130026 · Fax: +86 20 36822386 · tech@biochemprobe.com · www.biochemprobe.com
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