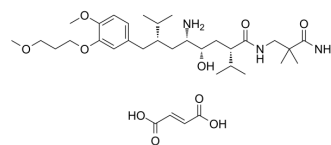


Aliskiren fumarate

Cat. No.:	HY-12176B
CAS No.:	1196835-68-3
Molecular Formula:	C ₃₄ H ₅₇ N ₃ O ₁₀
Molecular Weight:	667.83
Target:	Renin; Autophagy
Pathway:	Metabolic Enzyme/Protease; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Aliskiren fumarate is an orally active, highly potent and selective renin inhibitor, with IC ₅₀ of 1.5 nM. Aliskiren fumarate can be used for the research of hypertension, cardiovascular diseases and cancer cachexia ^{[1][2][3]} .
IC₅₀ & Target	IC ₅₀ : 1.5 nM (renin) ^[1]
In Vivo	<p>Aliskiren fumarate (< 10 mg/kg, Orally, daily) inhibits plasma renin activity and lowers blood pressure in sodium-depleted marmosets^[2].</p> <p>Aliskiren fumarate (10 mg/kg, Intragastrically, once) significantly alleviates multiple cachexia-associated symptoms in BALB/c mice bearing C26 mouse colon carcinoma cells, including BW loss, tumor burden, muscle wasting, muscular dysfunction, and shortened survival^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Neurobiol Dis. 2014 Nov;71:292-304.
- Lipids Health Dis. 2018 Jul 31;17(1):183.
- Department of Biological Science. National Sun Yat-Sen University. 2015 Sep.

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REFERENCES

- [1]. Yuji Nakamura, et al. Discovery of DS-8108b, a Novel Orally Bioavailable Renin Inhibitor. ACS Med. Chem. Lett., 2012, 3 (9), pp 754–758
- [2]. Wood JM, et al. Structure-based design of aliskiren, a novel orally effective renin inhibitor. Biochem Biophys Res Commun. 2003 Sep 5;308(4):698-705.
- [3]. Wang C, et al. Aliskiren targets multiple systems to alleviate cancer cachexia. Oncol Rep. 2016 Nov;36(5):3014-3022.

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

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