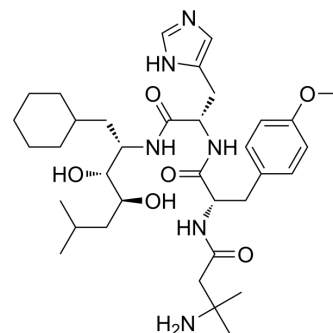


Enalkiren

Cat. No.:	HY-105276
CAS No.:	113082-98-7
Molecular Formula:	C ₃₅ H ₅₆ N ₆ O ₆
Molecular Weight:	656.86
Target:	Renin
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Enalkiren (A-64662) is a potent dipeptide renin inhibitor with an IC ₅₀ of 0.78 nM in a purified renal renin-angiotensinogen system (pH=6.0). Enalkiren suppresses renin activity, and also reduces systolic and diastolic blood pressure. Enalkiren can be used to research essential hypertension ^{[1][2]} .								
IC₅₀ & Target	IC ₅₀ : 23 nM (hamster dipeptide renin), 14 nM (human dipeptide renin), 2.3 nM (cynomolgus monkey dipeptide renin) ^[2]								
In Vitro	Enalkiren inhibits the endogenous renin-angiotensinogen reaction with an IC ₅₀ value of 23 nM, 14 nM and 2.3 nM in hamster, human and cynomolgus monkey plasma, respectively, at pH 7.4 ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	<p>Enalkiren (0.01-10 mg/kg; i.v.; single dosage) reduces mean arterial blood pressure in cynomolgus monkey^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td><td>Cynomolgus monkey^[2]</td></tr> <tr> <td>Dosage:</td><td>0.01-10 mg/kg</td></tr> <tr> <td>Administration:</td><td>i.v.; single dosage</td></tr> <tr> <td>Result:</td><td>Reduced mean arterial blood pressure in a dose-related manner.</td></tr> </table>	Animal Model:	Cynomolgus monkey ^[2]	Dosage:	0.01-10 mg/kg	Administration:	i.v.; single dosage	Result:	Reduced mean arterial blood pressure in a dose-related manner.
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Administration:	i.v.; single dosage								
Result:	Reduced mean arterial blood pressure in a dose-related manner.								

REFERENCES

- [1]. Boger RS, et al. Prolonged duration of blood pressure response to enalkiren, the novel dipeptide renin inhibitor, in essential hypertension. Hypertension. 1990 Jun;15(6 Pt 2):835-40.
- [2]. Kleinert, Hollis D., et al. Profile of the Renin Inhibitor, Enalkiren (ABBOTT-64662). Cardiovascular Drug Reviews 8 (1990): 203-219.

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

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