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Zuschläge

- Mindermengenzuschlag
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SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

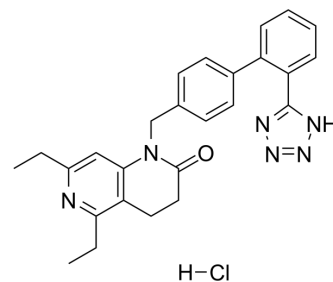
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

ZD 7155(hydrochloride)

Cat. No.:	HY-102093
CAS No.:	146709-78-6
Molecular Formula:	C ₂₆ H ₂₇ ClN ₆ O
Molecular Weight:	474.99
Target:	Angiotensin Receptor
Pathway:	GPCR/G Protein
Storage:	4°C, sealed storage, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (526.33 mM; Need ultrasonic)				
	H ₂ O : 4.17 mg/mL (8.78 mM; ultrasonic and warming and heat to 60°C)				
	Preparing Stock Solutions	Mass	1 mg	5 mg	10 mg
		Solvent			
		Concentration			
		1 mM	2.1053 mL	10.5265 mL	21.0531 mL
In Vivo	Preparing Stock Solutions	5 mM	0.4211 mL	2.1053 mL	4.2106 mL
		10 mM	0.2105 mL	1.0527 mL	2.1053 mL
		Please refer to the solubility information to select the appropriate solvent.			
		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline			
		Solubility: ≥ 2.08 mg/mL (4.38 mM); Clear solution			
In Vivo	Preparing Stock Solutions	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)			
		Solubility: ≥ 2.08 mg/mL (4.38 mM); Clear solution			
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil			
		Solubility: ≥ 2.08 mg/mL (4.38 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	ZD 7155 hydrochloride is an angiotensin II receptor type 1 (AT1 receptor) antagonist.
IC ₅₀ & Target	Target: AT1 receptor ^[1]
In Vivo	In conscious SD rats, ZD 7155 and losartan behave as competitive antagonists and the pressor response curve to angiotensin II is shifted to the right. Experiments in conscious SD rats also show that ZD 7155 is approximately ten times as potent as losartan in suppressing the angiotensin II-induced pressor response (240 ng/kg; 10 min infusion). In addition, experiments with conscious rats demonstrate that ZD 7155 could suppress the angiotensin II-induced pressor response for

approximately 24 h when ZD 7155 is administered intravenously in a 1.082 $\mu\text{mol/kg}$ bolus dose and angiotensin II is given at 240 ng/kg (in a 10-min infusion). Experiments in conscious SHR using ZD 7155 (1.082 $\mu\text{mol/kg}$) and losartan (6.495 $\mu\text{mol/kg}$) as intravenous boluses indicate that both ZD 7155 and the reference compound losartan exhibit a significant antihypertensive effect^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration ^[1]

Rats^[1]

SpragueDawley rat are used. Saline is used as control for the anpiotensin I1 type 1 receptor antagonists. ZD 7155 is given intravenously in a bolus dose of 1.082 $\mu\text{mol/kg}$, and losartan in the doses 2.165 and 6.495 $\mu\text{mol/kg}$ ^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Redox Biol. October 2021, 102115.

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REFERENCES

[1]. Junggren IL, et al. Comparative cardiovascular effects of the angiotensin II type 1 receptor antagonists ZD 7155 and losartan in the rat. J Pharm Pharmacol. 1996 Aug;48(8):829-33.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

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