## AZ7976

Cat. No.:	HY-162401	
CAS No.:	2813866-27-0	0 F
Molecular Formula:	C <sub>30</sub> H <sub>33</sub> F <sub>7</sub> N <sub>2</sub> O <sub>6</sub> S	N S F
Molecular Weight:	682.65	NH FF
Target:	RXFP Receptor	0
Pathway:	GPCR/G Protein	∼o <sup>−</sup> F <sup>−</sup> H
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	Ö

BIOLOGICA	L ACTIVITY									
Description	AZ7976 (Co signaling th <sup>[1]</sup> .	mpound 42 rrough an a	) is a highly selective agonist for the Relaxin Family llosteric mechanism, thereby physiologically increa	Peptide Rece asing heart rat	ptor 1 (RXF e. AZ7976 c	P1) (pEC <sub>50</sub> : can be used	> 10.5). AZ7 in the fielc	7976 enhanco l of cardiova:	es RXFP1's scular dise	cAN ase
In Vitro	AZ7976 (90 binding <sup>[1]</sup> . AZ7976 inhi In Vitro Safe MCE has no	min; conce ibits ion cha ety <sup>[1]</sup> ıt independ	ntration responses) does not compete with relaxin annels and bile salt efflux transporter (BSEP) and is ently confirmed the accuracy of these methods. Th	H2 for binding cytotoxic to T ey are for refe	to RXFP1 i HP1 <sup>[1]</sup> . rence only.	in CHO-hRX	FP1 cells, t	out enhances	s 125I-rela:	(in H
		IC <sub>50</sub> THP1	IC <sub>50</sub> HepG2 Glu/Gal	IC <sub>50</sub> HepG2 C3a spheroids	IC <sub>50</sub> BSEP	IC <sub>50</sub> hERG	IC <sub>50</sub> Nav1.5	IC <sub>50</sub> Kv4.3 (Ito)	IC <sub>50</sub> IKs	mic
	42 μM	15 µM	68/37 μM	17 µM	23 µM	>39 µM	21 µM	>33 µM	>33 µM	N
	In Vivo		AZ7976 (i.v.; initial 1.5 mg/kg; i.v.drip; continuous 9.0 mg/kg) causes a significant increase in heart rate and a rise in mean arterial blood pressure in the rats. <sup>[1]</sup> . Pharmacokinetic Analysis in AZ7976 <sup>[1]</sup> MCE has not independently confirmed the accuracy of these methods. They are for reference only. Route Dose (μ Vdss Cl t oral F							

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## Product Data Sheet

mol/kg)(L/k	g)(mL/min/l	kg) <sub>1/2</sub> ( (h) r	dose (µ nol/kg	ı (%) )		
i.v. 0.73 2.3	8 38	2.9	1.46	11		
Animal Model:	Sprague-Dawley rats <sup>[1]</sup>					
Dosage:	initial 1.5 mg/kg, continuous 9.0 mg/kg					
Administration:	i.v.; i.v.drip					
Result:	Caused a significant increase in heart rate and a rise in mean arterial blood pressure in the rats, the same response in Sprague- Dawley rats as after RXFP1 receptor activation					

## REFERENCES

[1]. Granberg KL, et al. Identification of Novel Series of Potent and Selective Relaxin Family Peptide Receptor 1 (RXFP1) Agonists. J Med Chem. 2024 Mar 28;67(6):44

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

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