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Data Sheet

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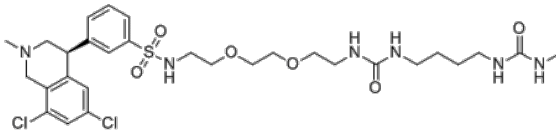
Product Name	:	Tenapanor
Cat. No.	:	PC-63147
CAS No.	:	1234423-95-0
Molecular Formula	:	$C_{50}H_{66}Cl_4N_8O_{10}S_2$
Molecular Weight	:	1145.044
Target	:	Sodium Channel
Solubility	:	10 mM in DMSO



Biological Activity

Tenapanor (AZD-1722, RDX5791) is a potent, selective inhibitor of the **Na+/H+ exchanger 3 (NHE3)** with IC50 of 5 and 10 nM for human and rat NHE3, respectively.
Tenapanor (AZD-1722, RDX5791) displays no inhibitory activities against human intestinal transporters NHE1 (SLC9A1), NHE2 (SLC9A2), TGR5 (GPBAR1), ASBT and Pit-1.
Tenapanor (AZD-1722, RDX5791) inhibits sodium uptake acted exclusively in the gastrointestinal tract in vivo, reduces extracellular fluid volume, left ventricular hypertrophy, albuminuria, and blood pressure in salt-fed nephrectomized rats.
Tenapanor (AZD-1722, RDX5791) also reduces sodium and phosphorus absorption, protects against vascular calcification in rat model of CKD.

References

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Labonté ED, et al. ***J Am Soc Nephrol.*** 2015 May;26(5):1138-49.

Zielińska M, et al. ***Expert Opin Investig Drugs.*** 2015;24(8):1093-9.

Block GA, et al. ***Clin J Am Soc Nephrol.*** 2016 Sep 7;11(9):1597-605.

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