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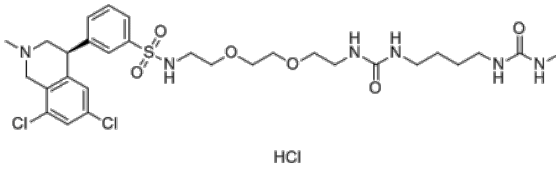
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Tenapanor hydrochloride
Cat. No.	:	PC-63146
CAS No.	:	1234365-97-9
Molecular Formula	:	$C_{50}H_{68}Cl_6N_8O_{10}S_2$
Molecular Weight	:	1217.96
Target	:	Sodium Channel
Solubility	:	10 mM in DMSO



Biological Activity

Tenapanor (AZD-1722, RDX5791) hydrochloride 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 displays no inhibitory activities against . human intestinal transporters NHE1 (SLC9A1), NHE2 (SLC9A2), TGR5 (GPBAR1), ASBT and Pit-1。
Tenapanor 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 also reduces sodium and phosphorus absorption, protects against vascular calcification in rat model of CKD.

References

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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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