## ORC-13661 hydrochloride

Cat. No.:	HY-129677	
CAS No.:	1589571-77-6	$O_{2}$ (NH <sub>2</sub>
Molecular Formula:	$C_{18}H_{20}CI_2N_4O_2S$	
Molecular Weight:	427.35	
Target:	Others	CI
Pathway:	Others	H N H HCI
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY			
Description	ORC-13661 hydrochloride is a hair cell protector. ORC-13661 hydrochloride protects sensory hair cells from aminoglycoside and <u>Cisplatin</u> (HY-17394) ototoxicity. ORC-13661 hydrochloride is a reversibly mechanoelectrical transducer (MET) channel permeant blocker <sup>[1]</sup> .		
In Vitro	<ul> <li>ORC-13661 (0.10-8.3 μM; wild type *AB Zebrafish hair cells) hydrochloride protects zebrafish hair cells from multiple aminoglycosides (AGs)<sup>[1]</sup>.</li> <li>ORC-13661 (0.10-20 μM) hydrochloride protects zebrafish lateral line hair cells and mammalian hair cells from <u>Cisplatin</u> (HY-17394)<sup>[1]</sup>.</li> <li>ORC-13661 (0.3 and 3 μM) hydrochloride is a reversible blocker of the MET channel of auditory hair cells. ORC-13661 hydrochloride blocks OHC MET currents. ORC-13661 hydrochloride MET channel block is voltage dependent and permeant<sup>[1]</sup>.</li> <li>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</li> </ul>		
In Vivo	manner <sup>[1]</sup> .	MCE has not independently confirmed the accuracy of these methods. They are for reference only.         Animal Model:       Male Fischer 344 rat <sup>[1]</sup> Dosage:       0.2, 1, and 5 mg/kg         Administration:       Oral administration; daily, for 10 days	

## REFERENCES

[1]. Kitcher SR, et, al. ORC-13661 protects sensory hair cells from aminoglycoside and cisplatin ototoxicity. JCI Insight. 2019 Aug 8;4(15):e126764.

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Proteins

**Product** Data Sheet



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

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