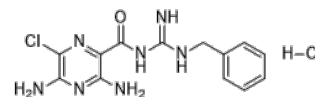


**Product Name** : Benzamil hydrochloride  
**Cat. No.** : PC-23671  
**CAS No.** : 161804-20-2  
**Molecular Formula** : C<sub>13</sub>H<sub>15</sub>Cl<sub>2</sub>N<sub>7</sub>O  
**Molecular Weight** : 356.21  
**Target** : Sodium-calcium Exchanger (NCX)  
**Solubility** : 10 mM in DMSO



## Biological Activity

Benzamil hydrochloride (Benzylamiloride hydrochloride) is an Amiloride analogue and Na<sup>+</sup>/Ca<sup>2+</sup> exchanger (NCX) inhibitor with IC<sub>50</sub> of 100 nM, also is a non-selective Deg/epithelial sodium channels (ENaC) blocker. Benzamil hydrochloride inhibits TRPP3-mediated Ca<sup>2+</sup>-activated currents with IC<sub>50</sub> of 1.1 μM. Benzamil hydrochloride could potentiate myogenic vasoconstriction.

## References

Fischer KG, et al. Nephrol Dial Transplant. 2002 Oct;17(10):1742-50.  
Dai XQ, et al. Mol Pharmacol. 2007 Dec;72(6):1576-85.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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