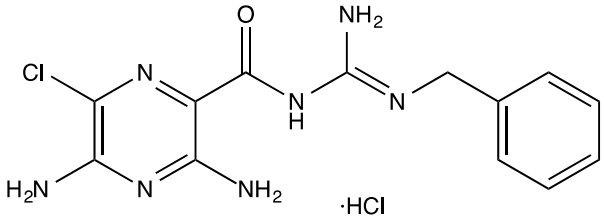
Catalog # 10-4541

Benzamil HCl

CAS# 161804-20-2

N-(Benzylamidino)-3,5-diamino-6-chloropyrazinecarboxamide hydrochloride

Lot # FBA7051



Benzamil (161804-21-2) is a more potent (Ki = 10 nM vs 182 nM[1], IC_{50} = 9 µM[2]) version of the epithelial sodium channel blocker Amiloride. It is also an inhibitor of Na^+/Ca^{2+} exchange transport (IC_{50} = 11 µM)[2] and the Na^+/H^+ antiporter (IC_{50} = 80 nM)[2].

References:

1) Cuthbert and Fanelli (1978), *Effects of some pyrazinecarboxamides on sodium transport in frog skin;* Br. J. Pharmacol. **63** 139
2) Kleyman and Cragoe (1988), *Amiloride and Its Analogs as Tools in the Study of Ion Transport;* J. Membrane Biol. **105** 1

PHYSICAL DATA

Molecular Weight:	356.21
Molecular Formula:	$C_{13}H_{14}ClN_7O \cdot HCl$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml) or water (up to 5 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

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