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# DATASHEET

## Zoniporide dihydrochloride

### Product overview

<b>Name</b>	Zoniporide dihydrochloride
<b>Cat No</b>	HB1137
<b>Alternative names</b>	CP 597396
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>99%
<b>Description</b>	Potent, selective Na <sup>+</sup> / H <sup>+</sup> exchanger-1 inhibitor

### Biological Data

<b>Biological description</b>	Potent and selective Na <sup>+</sup> /H <sup>+</sup> exchanger-1 (NHE-1) inhibitor (IC <sub>50</sub> = 14 nM). Exhibits 157- fold and 15,700- fold selectivity for NHE1 over human NHE-2 and rat NHE-3 respectively. Displays cardioprotective properties and reduces both the incidence and duration of ischemia-reperfusion.
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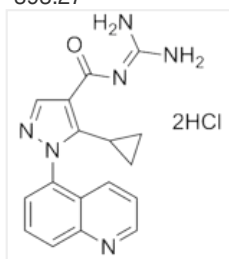
### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in water (10mM) or DMSO (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	[1-(Quinolin-5-yl)-5-cyclopropyl-1H-pyrazole-4-carbonyl]guanidine dihydrochloride
<b>Molecular Weight</b>	393.27

**Chemical structure**



<b>Molecular Formula</b>	C <sub>17</sub> H <sub>16</sub> N <sub>6</sub> O·2HCl
<b>CAS Number</b>	241799-10-0
<b>PubChem identifier</b>	22267855
<b>SMILES</b>	O=C(/N=C(N)/N)C(C=N3)=C(C4CC4)N3C1=C2C(N=CC=C2)=CC=C1.Cl.Cl
<b>InChiKey</b>	ARZNPJAGKWHEHT-UHFFFAOYSA-N

### References

**Zoniporide: a potent and highly selective inhibitor of human Na(+)/H(+) exchanger-1.**

Marala RB *et al* (2002) Eur J Pharmacol 451(1)

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12223226

**[Cardioprotective properties of zoniporide studied on experimental ischemia and reperfusion models in rat myocardium].**

Gurova NA *et al* (2013) Eksp Klin Farmakol 76(8)

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24228483

**Zoniporide: a potent and selective inhibitor of the human sodium-hydrogen exchanger isoform 1 (NHE-1).**

Tracey WR *et al* (2003) Cardiovasc Drug Rev 21(1)

PubMedID

12595915

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