

DATASHEET

Zoniporide dihydrochloride

Product overview

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

Biological Data

Biological description	Potent and selective Na ⁺ /H ⁺ exchanger-1 (NHE-1) inhibitor (IC ₅₀ = 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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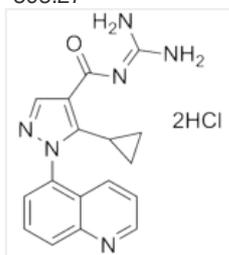
Solubility & Handling

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

Chemical Data

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

Chemical structure



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

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12595915
