


## Certificate of Analysis

Catalog Number	BP16203
Product Name	Zoniporide (hydrochloride)

## Physical and Chemical Properties

CAS No.	241800-97-5
Chemical Formula	C <sub>17</sub> H <sub>17</sub> ClN <sub>6</sub> O
Molecular Weight	356.81
Solubility	DMSO: Soluble
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

## Product Information

Description	Zoniporide hydrochloride is a selective inhibitor of NHE-1 with IC <sub>50</sub> of 14 nM which is >150-fold selectivity versus other NHE isoforms. Zoniporide hydrochloride shows an IC <sub>50</sub> of 59 nM for NHE-1-dependent swelling of human platelets.
In vivo	In rats, Zoniporide hydrochloride (1 mg/kg; i.v.) shows the AUC <sub>0-∞</sub> and t <sub>1/2</sub> are 0.07 µg h/mL and 0.5 hours, respectively. In open chest anesthetized rabbits, Zoniporide hydrochloride (0.25, 1, 4 mg/kg; i.v.) dose-dependently reduces infarct size with an ED <sub>50</sub> of 0.45 mg/kg/h. Zoniporide hydrochloride exhibits moderate plasma protein binding with t <sub>1/2</sub> of 1.5h in monkeys.

## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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