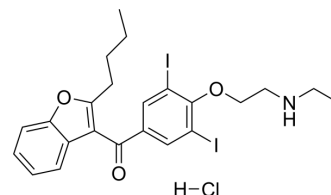


## Desethylamiodarone hydrochloride

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-130353  |
| <b>CAS No.:</b>           | 96027-74-6   |
| <b>Molecular Formula:</b> | C <sub>23</sub> H <sub>26</sub> ClI <sub>2</sub> NO <sub>3</sub>   |
| <b>Molecular Weight:</b>  | 653.72   |
| <b>Target:</b>            | Potassium Channel; Autophagy   |
| <b>Pathway:</b>           | Membrane Transporter/Ion Channel; Autophagy  |
| <b>Storage:</b>           | -20°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 10 mg/mL (15.30 mM; Need ultrasonic and warming)  
Ethanol : 5 mg/mL (7.65 mM; Need ultrasonic and warming)

| Preparing Stock Solutions | Solvent<br>Concentration | Mass          | 1 mg      | 5 mg      | 10 mg      |
|---------------------------|--------------------------|---------------|-----------|-----------|------------|
|                           |                          | Concentration | 1 mg      | 5 mg      | 10 mg      |
|                           | 1 mM                     |               | 1.5297 mL | 7.6485 mL | 15.2971 mL |
|                           | 5 mM                     |               | 0.3059 mL | 1.5297 mL | 3.0594 mL  |
|                           | 10 mM                    |               | 0.1530 mL | 0.7649 mL | 1.5297 mL  |

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Desethylamiodarone hydrochloride (N-desethylamiodarone hydrochloride) is a major active metabolite of Amiodarone. Desethylamiodarone hydrochloride is formed by CYP3A isoenzymes. Amiodarone is an antiarrhythmic agent for inhibition of ATP-sensitive potassium channel with an IC<sub>50</sub> of 19.1 μM<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Shayeganpour A, et al. Determination of the enzyme(s) involved in the metabolism of amiodarone in liver and intestine of rat: the contribution of cytochrome P450 3A isoforms. *Drug Metab Dispos.* 2006 Jan;34(1):43-50.
- [2]. Singh, B.N. and E.M. Vaughan Williams, The effect of amiodarone, a new anti-anginal drug, on cardiac muscle. *Br J Pharmacol*, 1970. 39(4): p. 657-67.
- [3]. Rosenbaum, M.B., et al., Clinical efficacy of amiodarone as an antiarrhythmic agent. *Am J Cardiol*, 1976. 38(7): p. 934-44.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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