KC 12291 hydrochloride

| Cat. No.: | HY-108502 | | |
|--------------------|---|----------|--|
| CAS No.: | 181936-98-1 | | |
| Molecular Formula: | C ₂₂ H ₂₈ ClN ₃ O ₃ S | | |
| Molecular Weight: | 449.99 | | |
| Target: | Sodium Channel | H-CI N-S | |
| Pathway: | Membrane Transporter/Ion Channel | | |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. | | |

| BIOLOGICALACTIVITY | | | | |
|--------------------|--|--|--|--|
| Description | KC 12291 hydrochloride is an orally active blocker of voltage-gated sodium channel (VGSC). KC 12291 hydrochloride reduces the amplitude of sustained Na ⁺ current to exert antiischemic activity. KC 12291 hydrochloride has significant cardioprotective effect in vitro and in vivo ^[1] . | | | |
| In Vitro | KC 12291 hydrochloride (1 μM) reduces the peak of Na ⁺ current approximately 60 % in rat ventricular cardiomyocytes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | | |
| In Vivo | KC 12291 hydrochloride (0.63 mg/kg for p.o; once) exerts significant antiischemic activity in anesthetized rabbit model^[1]. KC 12291 hydrochloride (60 mg/kg for p.o) has plasma C_{max} values of 1.3 and 1.4 µg/mL for female and male rats, respectively, and the value of plasma T_{max} is close to 2 h^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | | |
| | Dosage: | 0.16, 0.63 mg/kg | | |
| | Administration: | Oral administration (p.o.); Once | | |
| | Result: | Significantly attenuated the coronary occlusion produced marked ST segment elevation about 68 % at 0.63 mg/kg. | | |
| | | | | |

REFERENCES

[1]. John GW, et al. KC 12291: an atypical sodium channel blocker with myocardial antiischemic properties. Cardiovasc Drug Rev. 2004 Spring;22(1):17-26.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Inhibitors

•

Screening Libraries

•

Proteins



Product Data Sheet