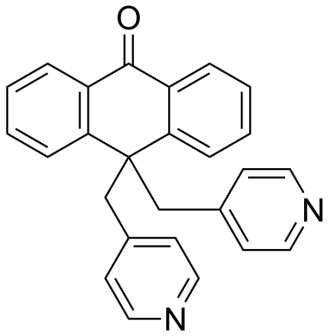
XE991

Cat. No.:	HY-108577A
CAS No.:	122955-42-4
Molecular Formula:	$C_{26}H_{20}N_2O$
Molecular Weight:	376.45
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	XE 991 dihydrochloride, a Kv7 (KCNQ) channels blocker, potently inhibits Kv7.1 (KCNQ1), Kv7.2 (KCNQ2), Kv7.2 + Kv7.3 (KCNQ3) channel, and M-current with IC_{50}s of 0.75 μM, 0.71 μM, 0.6 μM, and 0.98 μM, respectively[1].
In Vitro	XE 991 dihydrochloride possesses an EC_{50} of 490 nM for enhancement of [^{3}H]ACh release from rat brain slices, and shows good in vivo potency and duration of action[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Front Physiol. 2018 Feb 20;9:117.
- Front Physiol. 2016 Nov 29;7:584.

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REFERENCES

[1]. Wang HS, et al. KCNQ2 and KCNQ3 potassium channel subunits: molecular correlates of the M-channel. Science. 1998 Dec 4;282(5395):1890-3.

[2]. Zaczek R, et al. Two new potent neurotransmitter release enhancers, 10,10-bis(4-pyridinylmethyl)-9(10H)-anthracenone and 10,10-bis(2-fluoro-4-pyridinylmethyl)-9(10H)-anthracenone: comparison to linopirdine. J Pharmacol Exp Ther. 1998 May;285(2):724-30.

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