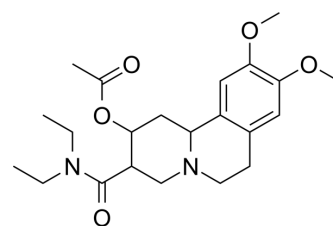


## Benzquinamide hydrochloride

Cat. No.:	HY-U00244A
CAS No.:	113-69-9
Molecular Formula:	C <sub>22</sub> H <sub>33</sub> ClN <sub>2</sub> O <sub>5</sub>
Molecular Weight:	440.96
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



H-Cl

### BIOLOGICAL ACTIVITY

Description	Benzquinamide (P2647) is an antiemetic which can bind to the $\alpha_{2A}$ , $\alpha_{2B}$ , and $\alpha_{2C}$ adrenergic receptors ( $\alpha_2$ -AR) with $K_i$ values of 1,365, 691, and 545 nM, respectively. Benzquinamide also inhibits P-glycoprotein mediated drug efflux and potentiates anticancer agent cytotoxicity in multidrug resistant cells <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	Ki: 1,365, 691, and 545 nM ( $\alpha_{2A}$ , $\alpha_{2B}$ , $\alpha_{2C}$ receptor) <sup>[1]</sup>

### REFERENCES

- [1]. Elisabet Gregori-Puigjané, et al. Identifying mechanism-of-action targets for drugs and probes. Proc Natl Acad Sci U S A. 2012 Jul 10; 109(28): 11178-11183.
- [2]. Mazzanti R, et al. Benzquinamide inhibits P-glycoprotein mediated drug efflux and potentiates anticancer agent cytotoxicity in multidrug resistant cells. Oncol Res. 1992;4(8-9):359-65.

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

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