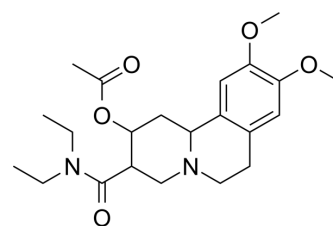


Benzquinamide hydrochloride

Cat. No.:	HY-U00244A		
CAS No.:	113-69-9		
Molecular Formula:	C ₂₂ H ₃₃ ClN ₂ O ₅		
Molecular Weight:	440.96		
Target:	Adrenergic Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



H-Cl

BIOLOGICAL ACTIVITY

Description

Benzquinamide (P2647) is an antiemetic which can bind to the α_{2A} , α_{2B} , and α_{2C} adrenergic receptors (α_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^{[1][2]}.

IC₅₀ & Target

Ki: 1,365, 691, and 545 nM (α_{2A} , α_{2B} , α_{2C} receptor)^[1]

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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