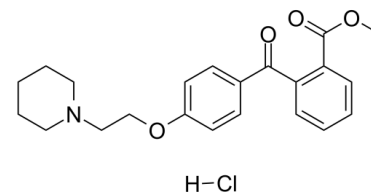


Data Sheet

Product Name:	Pitofenone hydrochloride
Cat. No.:	CS-0034673
CAS No.:	1248-42-6
Molecular Formula:	C ₂₂ H ₂₆ ClNO ₄
Molecular Weight:	403.90
Target:	AChE
Pathway:	Neuronal Signaling
Solubility:	DMSO : 83.33 mg/mL (206.31 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Pitofenone hydrochloride, a spasmolytic compound, inhibits the **acetylcholinesterase (AChE)** activity from bovine erythrocytes and from electric eel with K_i s of 36 and 45 μ M, respectively. IC₅₀ & Target: K_i : 36 μ M (AChE, bovine erythrocytes), 45 μ M (AChE, electric eel)

References:

[1]. Punekar NS, et al. Acetylcholinesterase inhibition by pitofenone: a spasmolytic compound. *Biotechnol Appl Biochem.* 1991 Dec;14(3):378-82.

CAIndexNames:

Benzoic acid, 2-[4-[2-(1-piperidinyl)ethoxy]benzoyl]-, methyl ester, hydrochloride (1:1)

SMILES:

Cl[H].O=C(C1=CC=C(C=C1)OCCN2CCCCC2)C3=C(C=CC=C3)C(OC)=O

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

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