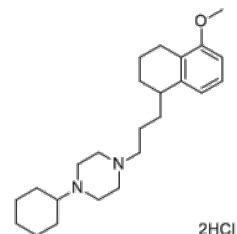


Product Name : PB28 dihydrochloride
Cat. No. : PC-60346
CAS No. : 172907-03-8
Molecular Formula : C₂₄H₄₀Cl₂N₂O
Molecular Weight : 443.5
Target : Sigma Receptor
Solubility : 10 mM in DMSO



Biological Activity

PB28 dihydrochloride is a potent, mixed **sigma2** agonist and **sigma1** antagonist with K_i of 0.28 and 13.0 nM, respectively. PB28 inhibits cancer cell growth, modulates P-glycoprotein, and synergizes with doxorubicin in MCF7 and MCF ADR cells with IC₅₀ in nanomolar range. PB28 increases G₀-G₁-phase fraction and caspase-independent apoptosis, also reduces P-gp expression.

References

- Azzariti A, et al. Mol Cancer Ther. 2006 Jul;5(7):1807-16.
Cassano G, et al. Cell Calcium. 2006 Jul;40(1):23-8.
Berardi F, et al. J Med Chem. 1996 Jan 5;39(1):176-82.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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