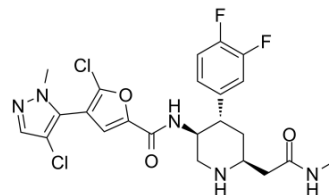


AKT-IN-3

Cat. No.:	HY-126257
Molecular Formula:	C ₂₃ H ₂₃ Cl ₂ F ₂ N ₅ O ₃
Molecular Weight:	526.36
Target:	Akt; Apoptosis
Pathway:	PI3K/Akt/mTOR; Apoptosis
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description

AKT-IN-3 (compound E22) is a potent, orally active low hERG blocking Akt inhibitor, with 1.4 nM, 1.2 nM and 1.7 nM for Akt1, Akt2 and Akt3, respectively. AKT-IN-3 (compound E22) also exhibits good inhibitory activity against other AGC family kinases, such as PKA, PKC, ROCK1, RSK1, P70S6K, and SGK. AKT-IN-3 (compound E22) induces apoptosis and inhibits metastasis of cancer cells^[1].

IC₅₀ & Target

Akt1	Akt2	Akt3	PKA
1.4 nM (IC ₅₀)	1.2 nM (IC ₅₀)	1.7 nM (IC ₅₀)	0.3 nM (IC ₅₀)
P70S6K			
8.9 (IC ₅₀)			

REFERENCES

[1]. Dong X, et al. Discovery of 3,4,6-Trisubstituted Piperidine Derivatives as Orally Active, Low hERG Blocking Akt Inhibitors via Conformational Restriction and Structure-Based Design. *J Med Chem.* 2019 Aug 8;62(15):7264-7288.

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

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