Product Data Sheet

Product Name: AKT-IN-3
Cat. No.: GC35275

Chemical Properties

Cas. No.	2374740-21-1		
SMILES	CNC(C[C@H]1NC[C@@H](NC(C2=CC(C3=C(Cl)C=NN3C)=C(Cl)O2)=O)[C@H](C4=CC(F)=C(F)C=C4)C1)=O		
Formula	$C_{23}H_{23}Cl_2F_2N_5O_3$	M.Wt	526.36
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	AKT-IN-3		

Background

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]. Akt1|1.4 nM (IC50)|Akt2|1.2 nM (IC50)|Akt3|1.7 nM (IC50)|PKA|0.3 nM (IC50)|P70S6K|8.9 (IC50)

[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.

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