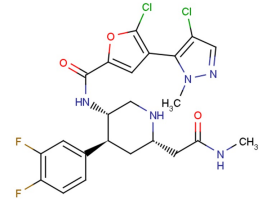


Data Sheet (Cat.No.T10275)

AKT-IN-3

Chemical Properties

CAS No.:	2374740-21-1
Formula:	C23H23Cl2F2N5O3
Molecular Weight:	526.36
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	AKT-IN-3 is a potent, orally active low hERG blocking Akt inhibitor (IC ₅₀ : 1.4 nM, 1.2 nM, and 1.7 nM for Akt1, Akt2, and Akt3). AKT-IN-3 (compound E22) also exhibits good inhibitory activity against other AGC family kinases, such as PKA, PKC, ROCK1, RSK1, P70S6K, and SGK.
Targets(IC ₅₀)	Akt1: 1.4 nM Akt2: 1.2 nM Akt3: 1.7 nM PKA: 0.3 nM P70S6K: 8.9

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9 mL	9.499 mL	18.998 mL
5 mM	0.38 mL	1.9 mL	3.8 mL
10 mM	0.19 mL	0.95 mL	1.9 mL
50 mM	0.038 mL	0.19 mL	0.38 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

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