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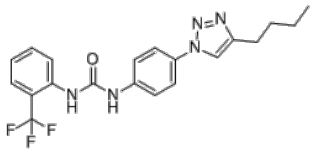
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	FHP01
Cat. No.	:	PC-49243
CAS No.	:	1985601-04-4
Molecular Formula	:	$C_{20}H_{20}F_3N_5O$
Molecular Weight	:	403.409
Target	:	Other Targets
Solubility	:	10 mM in DMSO



Biological Activity

FHP01 (BA103) is a potent, small molecule inhibitor of **DDX3X helicase** activity with IC50 of 0.3 uM in in vitro enzyme assays, exhibits very effective antiproliferative and killing activity against different breast cancer cell types (IC50=3.058 and 3.21 μM in MDA MB 468 and MDA MB 231, respectively).
FHP01 does not inhibit the ATPase activity of DDX3X and the helicase activity of DDX1 (IC50>100 uM).
FHP01 also inhibited WNT signaling, a key tumorigenic pathway already correlated to DDX3X functions in breast cancer model cell lines.
FHP01 inhibits ER+/PR+ (IC50 = 12.43 and 10.62 μM in MCF7 and T47D cells, respectively) and HER2+ (IC50 = 13.46 μM in SKBR3) cells, but lower in control MCF10A cells (IC50 = 28.71 μM).
FHP01 (45 mg/kg, i.p. injection) suppresses rowth of MDA MB 231 tumor xenografts in nude mice.

References

Lisa Gherardini, et al. ***Cancers (Basel).*** 2021 Sep 27;13(19):4830.

E-mail: tech@probechem.com