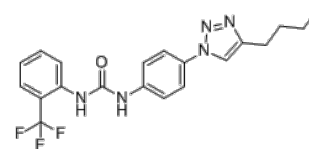


Product Name : FHP01
Cat. No. : PC-49243
CAS No. : 1985601-04-4
Molecular Formula : C₂₀H₂₀F₃N₅O
Molecular Weight : 403.409
Target : Other Targets
Solubility : 10 mM in DMSO



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 inhibits 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 growth of MDA MB 231 tumor xenografts in nude mice.

References

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

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

E-mail: tech@probechem.com