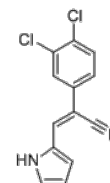


Product Name : ANI-7
Cat. No. : PC-60774
CAS No. : 931417-26-4
Molecular Formula : C₁₃H₈Cl₂N₂
Molecular Weight : 263.121
Target : Aryl hydrocarbon Receptor (AhR)
Solubility : 10 mM in DMSO



Biological Activity

ANI-7 is a potent and selective (up to 263-fold) inhibitor of breast cancer cells with GI50 of 0.5 uM (MCF-7), via activation the **aryl hydrocarbon receptor** (AhR) pathway.

ANI-7 inhibits other cell lines derived from other tumour types with GI50 of 3.2-46 uM (lung, colon, ovary, neuronal, glial, prostate, and pancreas).

ANI-7 potently inhibits the growth of T47D, ZR-75-1, MCF-7, SKBR3, and MDA-MB-468 breast cancer cells with GI50 of 0.16-0.38 uM, induces cell cycle arrest checkpoint activation and DNA damage.

ANI-7 binds to the AhR, induces translocation to the nucleus, activates the XRE, induces CYP1 activity, culminating in cell cycle arrest, checkpoint activation, DNA damage and cell death.

References

Gilbert J, et al. *Mol Pharmacol*. 2017 Dec 21. pii: mol.117.109827.

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

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