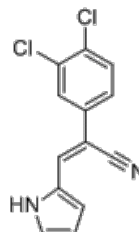


Product Name : ANI-7
Synonyms : ANI 7;ANI7
Cat No. : M16667
CAS Number : 931417-26-4
Molecular Formula : C₁₃H₈Cl₂N₂
Formula Weight : 263.12
Chemical Name : (Z)-2-(3,4-dichlorophenyl)-3-(1H-pyrrol-2-yl)acrylonitrile



Description : A potent and selective (up to 263-fold) inhibitor of breast cancer cells with GI₅₀ of 0.5 μ M (MCF-7), via activation the aryl hydrocarbon receptor (AhR) pathway; inhibits other cell lines derived from other tumour types with GI₅₀ of 3.2-46 μ M (lung, colon, ovary, neuronal, glial, prostate, and pancreas); 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 μ M, induces cell cycle arrest checkpoint activation and DNA damage; 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.

Pathway : Endocrinology/Hormones

Target : AhR

Receptor : AhR

Solubility : —

SMILES : —

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

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