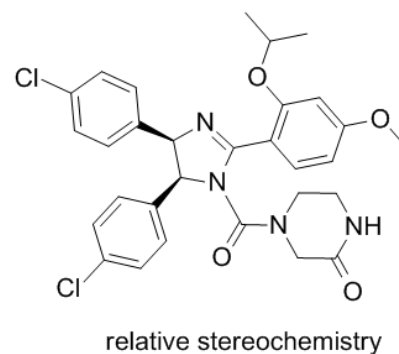


Product Name : Nutlin-3
Cat. No. : PC-45845
CAS No. : 890090-75-2
Molecular Formula : C₃₀H₃₀Cl₂N₄O₄
Molecular Weight : 581.4896
Target : MDM2-p53
Solubility : 10 mM in DMSO



Biological Activity

Nutlin-3 (Nutlin 3) is a potent and selective **Mdm2** inhibitor with IC₅₀ of 90 nM.

Nutlin-3 binds MDM2 in the p53-binding pocket and activates the p53 pathway in cancer cells, leading to cell cycle arrest, apoptosis, and growth inhibition of human tumor xenografts in nude mice.

Nutlin-3 induces p53 and p21WAF expression in a dose-dependent manner in 22RV1 cells.

Nutlin-3 also can block the **MDMX-p53** interaction and induce the p53 pathway in retinoblastoma cells (Weri1) with IC₅₀ of 0.7 μM.

References

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Supiot S, et al. **Mol Cancer Ther**. 2008 Apr;7(4):993-9.

Laurie NA, et al. **Nature**, 2006, 444(7115), 61-66.

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

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