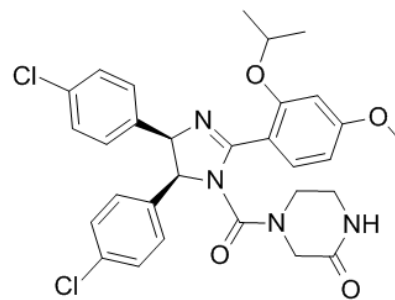


**Product Name** : Nutlin-3  
**Cat. No.** : PC-45845  
**CAS No.** : 890090-75-2  
**Molecular Formula** : C<sub>30</sub>H<sub>30</sub>Cl<sub>2</sub>N<sub>4</sub>O<sub>4</sub>  
**Molecular Weight** : 581.4896  
**Target** : MDM2-p53  
**Solubility** : 10 mM in DMSO



relative stereochemistry

## Biological Activity

A potent and selective Mdm2 inhibitor with IC<sub>50</sub> of 90 nM; 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; induces p53 and p21WAF expression in a dose-dependent manner in 22RV1 cells; also can block the MDMX-p53 interaction and induce the p53 pathway in retinoblastoma cells (Weri1) with IC<sub>50</sub> of 0.7 μM.

## References

Vassilev LT, et al. Science. 2004 Feb 6;303(5659):844-8.

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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