

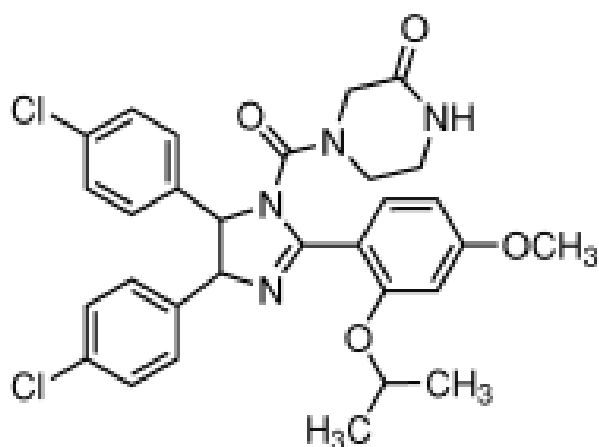
Cat No. 75-D58

Nutlin-3

2mg

Nutlin-3 is a MDM2 antagonist, a p53 activator and an apoptosis inducer. MDM2 works by binding the p53 tumor suppressor protein and negatively regulating its transcriptional activity and stability. Inhibition of the MDM-p53 interaction results in the stabilization of p53, cell cycle arrest and apoptosis. Nutlin-3 shows potential as a cancer treatment by activating the p53 pathway in cancer cells.

TECHNICAL INFORMATION



Other Names: (±)-4-[4,5-bis-(4-chlorophenyl)-2-(2-isopropoxy-4-methoxy-phenyl)-4,5-dihydro-imidazole-1-carbonyl]-piperazin-2-one

Chemical Formula: C₃₀H₃₀Cl₂N₄O₄

CAS Number: 548472-68-0

PubChem Substance ID: 24724554

Molecular Weight: 581.5

Purity: >98%

Appearance: Crystalline solid

Solubility: DMSO

IC₅₀: 0.09μM



For research purposes only

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO. Soluble at 20mg/ml. Incubate in a 37°C water bath for 5 minutes if precipitate is observed.

REFERENCES

1. Vassiliv et al. (2004). In vivo activation of the p53 pathway by small-molecule antagonists of MDM2. *Science*. 303:844-848.
2. Wakatsuki et al. (2003). Mechanics of cell spreading: role of myosin II. *J Cell Sci*. 116:1617-1625.