



Nutlin (3b)

Catalog No: tcsc0727

Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Specifications
CAS No: 675576-97-3
Formula: $C_{30}^{H}_{30}^{Cl}_{2}^{N}_{4}^{O}_{4}$
Pathway: Apoptosis
Target: MDM-2/p53
Purity / Grade: >98%
Solubility: 10 mM in DMSO
Alternative Names: Nutlin-3b
Observed Molecular Weight: 581.49

Product Description





Nutlin-3b is a MDM2/p53 antagonist or inhibitor with IC50 of 13.6 μM. Nutlin-3b is a less active enantiomer

IC50 & Target: IC50: 13.6 μM (MDM2/p53)

In Vitro: Nutlin-3b is a 150-fold less potent (+)-enantiomer of Nutlin-3 as p53 MDM2 antagonist or inhibitor, in comparison with more potent opposite (-)-enantiomer Nutlin-3a. It is useful as a negative control for non-Mdm2 related cellular activities. Nutlin-3b is useful as a negative control s for non-MDM2-related cellular activities. Nutlin-3a induces the expression of MDM2 and p21 (but not p53) only in cells with wild-type p53. Nutlin-3b has no effect regardless of the p53 status of the cells. Only the active enantiomer Nutlin-3a shows a potent antiproliferative activity and clear separation of potency between the cells harboring wild-type p53 and those harboring mutant p53. The potency of Nutlin-3b is much lower in the wild-type p53 cells and nearly identical to the potency of Nutlin-3a against the mutant p53 cells. After 48 hours of exposure to the Nutlin-3a, 45% of the cell population became TUNEL positive, but cells treated with the Nutlin-3b are indistinguishable from the untreated controls.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!