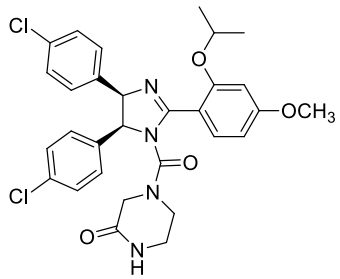
Catalog # 10-1350
Nutlin-3

CAS# 548472-68-0

(±)-4-[4,5-*Bis*(4-chlorophenyl)-2-(2-isopropoxy-4-methoxy-phenyl)-4,5-dihydro-imidazole-1-carbonyl]-piperazin-2-one

Lot # B104715



MDM2 antagonist; inhibits the MDM2-p53 interaction (IC50 = 0.09 µM) and activates p53[1]. Displays antiproliferative activity and induces apoptosis in a variety of tumor cells[2-4].

1) Vassilev *et al*. (2004), *In vivo activation of the p53 pathway by small-molecule antagonists of MDM2.*; Science, **303** 844.
2) Ghassemifar et al. (2012), *MDM2 antagonism by nutlin-3 induces death in human medulloblastoma cells;* Neuroscie. Lett., **513** 106
3) Manfe et al. (2012), *MDM2 inhibitor nutlin-31 induces apoptosis and senescence in cutaneous T-cell lymphoma: role of p53;* J. Invest. Dermatol., **132** 1487
4) Kunkele et al. (2012), *Pharmacological activation of the p53 pathway by nutlin-3 exerts anti-tumoral effects in medulloblastomas;* Neuro. Oncol., **14** 859

PHYSICAL DATA

Molecular Weight:	581.51
Molecular Formula:	$C_{30}H_{30}Cl_2N_4O_4$
Purity:	98% by TLC: NMR: Conforms
Solubility:	DMSO (up to 50 mg/ml), Ethanol (up to 50 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO o ethanol may be stored at -20°C for up to 1 month.

Focus Biomolecules LLC 400 Davis Dr. Suite 600 Plymouth Meeting, PA 19462
www.focusbiomolecules.com