

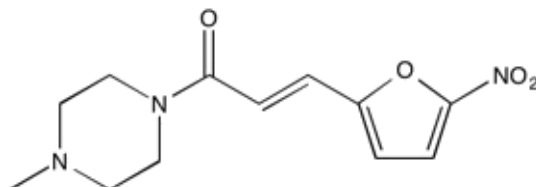
Catalog # 10-3148

NSC59984

CAS# 803647-40-7

(E)-1-(4-Methylpiperazin-1-yl)-3-(5-nitrofuran-2-yl)prop-2-en-1-one

Lot # S103080



p53 activator. Restores wild-type p53 signaling and depletes mutant p53 gain of function. Induces mutant p53 protein degradation via MDM2 and ubiquitin-proteasome pathway. Induces p73-dependent cell death in cancer cells without toxicity toward normal cells.¹ Inhibition of p53-MDM2 interaction remains a viable strategy for cancer therapeutic development.^{2,3}

- 1) Zhang et al. (2015), *Small-Molecule NSC59984 Restores p53 Pathway Signaling and Antitumor effects against Colorectal Cancer via p73 Activation and Degradation of Mutant p53*; *Cancer Res.*, **75** 3842
- 2) Ferraiuolo et al. (2016), *Oncogenic Intra-p53 Family Member Interactions in Human Cancers*; *Front. Oncol.*, **6** 77
- 3) Hong et al. (2014), *Targeting tumor suppressor p53 for cancer therapy: strategies, challenges and opportunities*; *Curr. Drug Targets*, **15** 80

PHYSICAL DATA

Molecular Weight:	265.27
Molecular Formula:	C ₁₂ H ₁₅ N ₃ O ₄
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 20 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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