



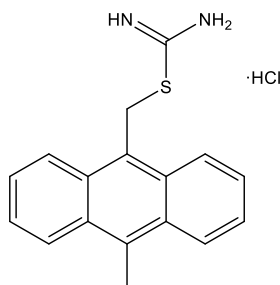
Catalog # 10-4177

XI-011

CAS# 59474-01-0

(10-Methylantracen-9-yl)methyl carbimidothioate hydrochloride; NSC146109 HCl

Lot # FBS4059



XI-011 activates p53 by inhibiting expression of one of its negative regulators, MDM4 (MDMX).¹ It was able to induce apoptosis in MCF-7 breast cancer cells. XI-011 acted synergistically with cisplatin in inducing apoptosis in head and neck cancer cells.² It also induced apoptosis in several cervical cancer *in vitro* and *in vivo*.³ XI-011 displayed efficacy in treating lung fibrosis in an MDM4-dependent manner.⁴

- 1) Wang and Yan (2011), *A small-molecule p53 activator induces apoptosis through inhibiting MDMX expression in breast cancer cells*; Neoplasia **13** 611
- 2) Roh *et al.* (2014), *XI-011 enhances cisplatin-induced apoptosis by functional restoration of p53 in head and neck cancer*; Apoptosis **19** 1594
- 3) Zhang *et al.* (2022), *A small-molecule inhibitor of MDMX suppresses cervical cancer cells via the inhibition of E6-E6AP-p53 axis*; Pharmacol. Res. **177** 106128
- 4) Mei *et al.* (2023), *Pharmacological inhibition of MDM4 alleviates pulmonary fibrosis*; Theranostics **13** 2787

PHYSICAL DATA

Molecular Weight: 316.85
Molecular Formula: C₁₇H₁₆N₂S·HCl
Purity: >98% by HPLC
NMR: (Conforms)
Solubility: DMSO (25 mg/ml)
Physical Description: Yellow solid
Storage and Stability: Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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