

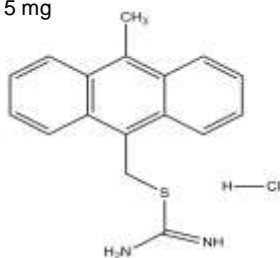
NSC 146109 hydrochloride

ALTERNATE NAME: (10-Methyl-9-anthracenyl) methyl carbamimidothioic acid ester hydrochloride; XI-011

CATALOG #: 1907-5

AMOUNT: 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₇H₁₆N₂S.HCl

MOLECULAR WEIGHT: 316.85

CAS NUMBER: 59474-01-0

APPEARANCE: Yellow solid

SOLUBILITY: DMSO (100 mM) or EtOH (10 mM)

PURITY: ≥98% by HPLC

STORAGE: Store at -20°C

DESCRIPTION: Cell-permeable. A p53 activator. It strongly activates p53 while selectively inhibiting growth of transformed cells without inducing genotoxicity. It promotes breast cancer cells to undergo apoptosis through activating p53 and inducing expression of proapoptotic genes. Recently, it has been found that activation of p53 by this small molecule is achieved through inhibition of MDMX expression. XI-011 repressed the MDMX promoter, resulting in down-regulation of MDMX mRNA level in MCF-7 cell.

REFERENCE: Wang, H., and Yan, C. (2011). *Neoplasia* **13**, 611-619; Berkson, R.G., *et al.* (2005). *Int. J. Cancer* **115**, 701-710; Dolma, S., *et al.* (2003). *Cancer Cell* **3**, 285-396.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

- Berberine Chloride (Cat. No. 1830-100, 500)
- Nutlin-3 (Cat. No. 1842-1,5)
- p53 Antibody (Cat. No. 3036-100)
- p53 Antibody (Cat. No. 3036R-100)
- p53 peptide (Cat. No.3036BP-50)
- p53 Mutant, Human Recombinant (Cat. No. 4832-5)
- p53 Human Recombinant (Cat. No. 4829-5)
- Pifithrin- α (Cat. No. 1554-10)