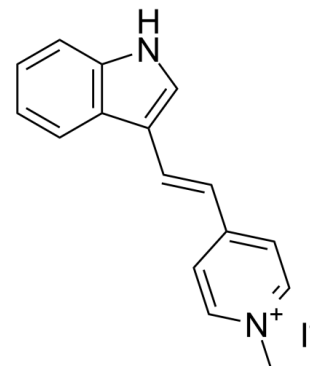


Data Sheet

| | |
|--------------------|--|
| Product Name: | F16 |
| Cat. No.: | CS-5707 |
| CAS No.: | 36098-33-6 |
| Molecular Formula: | C ₁₆ H ₁₅ IN ₂ |
| Molecular Weight: | 362.21 |
| Target: | Apoptosis |
| Pathway: | Apoptosis |
| Solubility: | DMSO : ≥ 31 mg/mL (85.59 mM); Ethanol : 1 mg/mL (2.76 mM); Need ultrasonic) |



BIOLOGICAL ACTIVITY:

F16 is a potent growth inhibitor of the **neu**-overexpressing cells and also selectively inhibits proliferation of mammary epithelial as well as a variety of mouse mammary tumor and human breast cancer cell lines. F16 is a mitochondriotoxic compound, and triggers apoptosis or necrosis depending on the genetic background of the target carcinoma cell^{[1][2]}.

References:

- [1]. Fantin VR et al. A novel mitochondriotoxic small molecule that selectively inhibits tumor cell growth. *Cancer Cell*. 2002 Jul;2(1):29-42.
- [2]. Fantin VR et al. F16, a mitochondriotoxic compound, triggers apoptosis or necrosis depending on the genetic background of the target carcinoma cell. *Cancer Res*. 2004 Jan 1;64(1):329-36.

CAIndexNames:

Pyridinium, 4-[(1E)-2-(1H-indol-3-yl)ethenyl]-1-methyl-, iodide (1:1)

SMILES:

C[N+]1=CC=C/C=C/C2=CNC3=C2C=CC=C3)C=C1.[I-]

Caution: Product has not been fully validated for medical applications. For research use only.

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