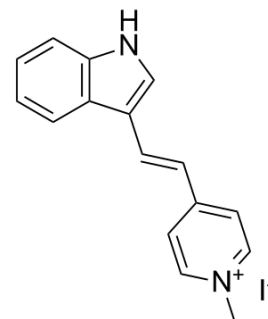


## Data Sheet

Product Name:	F16
Cat. No.:	HY-100395
CAS No.:	36098-33-6
Molecular Formula:	C <sub>16</sub> H <sub>15</sub> IN <sub>2</sub>
Molecular Weight:	362.21
Target:	Others
Pathway:	Others
Solubility:	DMSO: ≥ 31 mg/mL



### BIOLOGICAL ACTIVITY:

F16 is a small molecule that selectively inhibits proliferation of mammary epithelial, neu-overexpressing cells, as well as a variety of mouse mammary tumor and human breast cancer cell lines.

- 1, F16 induced cell cycle arrest in sensitive mouse tumor and human cancer cell lines.
- 2, Prolonged incubation with 3  $\mu$ M F16 resulted in increased cell death of F16-sensitive cells but not of F16-resistant ones.
- 3, F16 caused apoptosis in A6 cells.
- 4, F16 caused a dramatic decrease in the number of cells in S phase and an increase in the percentage of cells in G1 phase.
- 5, F16 is capable of inhibiting oxidative phosphorylation and inducing mitochondrial transmembrane depolarization.

### 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.

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

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