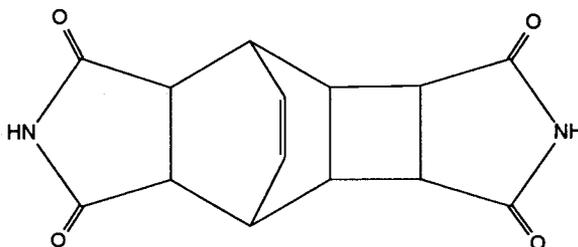


# MITINDOMIDE

NSC - 284356



## Chemical Name:

Octahydro-4,8-ethenopyrrolo[3',4':3,4]cyclobut[1,2-*f*]isoindole-1,3,5,7-(2*H*,6*H*)-tetrone

**CAS Registry Number:** 10403-51-7

**Molecular Formula:** C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub>

**M.W.:** 272.3

**Approximate Solubility:**

(mg/mL)

p-dioxane

slightly soluble

Aqueous NaOH (2 moles NaOH per mole of compound) > 20

## Stability:

### Solution:

A solution was prepared by dissolving 100 mg of drug in 3.0 mL of 0.25 N NaOH. This solution was diluted to 5.0 mL with water to give a final concentration of 20 mg/mL. At room temperature this solution shows 10% decomposition in 40 minutes and 50% decomposition in 5 hours (HPLC).

## Ultraviolet Absorption:

(p-dioxane)

$$\lambda_{\max} = 252 \pm 2 \text{ nm}$$

$$\epsilon = 346 - 366$$

## High Performance Liquid Chromatography:

- Column:** 300 mm x 4.6 mm i.d. RP-8
- Mobile Phase:** 10% CH<sub>3</sub>CN in H<sub>2</sub>O, pH adjusted to 4 with acetic acid
- Flow Rate:** 1.0 mL/min
- Detection:** UV at 254 nm
- Sample Preparation:** A 3.4-mg sampling is quickly dissolved in 1.0 mL of 0.05 N NaOH with the aid of sonication and vigorous mixing. At exactly 1.0 min after addition of the solvent the solution is chromatographed.
- Retention Volume:** 8.1 mL (NSC-284356)

## Toxicity Data:

Mouse(iv): LD<sub>50</sub>: 193 mg/kg  
NCI Screening Program Data Summary