

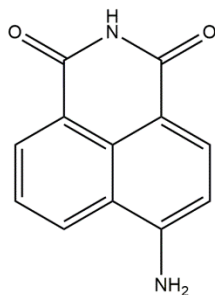
# 4-Aminonaphthalimide

04/21

**ALTERNATE NAMES:** 6-aminobenzo[de]isoquinoline-1,3-dione; 4-Amino-1,8-naphthalimide; 4-Aminonaphthalene-1,8-dicarboximide; 7-Amino-3-hydroxy-1H-benzo[de]isoquinolin-1-one; 4-ANI

**CATALOG #:** B3134-10 10 mg  
B3134-50 50 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>12</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>

**MOLECULAR WEIGHT:** 212.2

**CAS NUMBER:** 1742-95-6

**APPEARANCE:** Orange powder

**PURITY:** ≥ 95%

**SOLUBILITY:** ~1 mg/ml in DMSO

**DESCRIPTION:** 4-Aminonaphthalimide is an inhibitor of poly(ADP-ribose) polymerase (PARP). It inhibits PARP with an IC<sub>50</sub> of 180 nM. It inhibits radiation-induced PARP in cancer cells, potentiating the cytotoxicity of γ-radiation.

**STORAGE TEMPERATURE:** -20 °C

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

**REFERENCES:**

1. Banasik, M., Komura, H., Shimoyama, M., et al. Specific inhibitors of poly(ADP-ribose) synthetase and mono(ADP-ribosyl)transferase. *The Journal of Biological Chemistry* 267(3), 1569-1575 (1992).
2. Schlicker, A., Peschke, P., Burkle, A., et al. 4-Amino-1,8-naphthalimide: A novel inhibitor of poly(ADP-ribose) polymerase and radiation sensitizer. *Int.J.Radiat.Biol.* 75(1), 91-100 (1999).

**RELATED PRODUCTS:**

Sulforaphane (Cat. No. B2801)  
Iberin (Cat. No. B2827)  
Delphinidin (chloride) (Cat. No. B2807)  
Indole-3-carbinol (Cat. No. B2839)  
AZD-2461 (Cat. No. B3103)

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