**p-nitro-Pifithrin-α**

**ALTERNATE NAMES:** 2-(2-imino-4,5,6,7-tetrahydro-1,3-benzothiazol-3-yl)-1-(4-nitrophenyl)ethanone, hydrobromide; 1-(4-Nitrophenyl)-2-(4,5,6,7-tetrahydro-2-imino-3(2H)-benzothiazolyl)ethanone, HBr; Pifithrin-alpha, p-Nitro hydrobromide; p-nitro-PFT-α

**CATALOG #:**
- B2845-1 1 mg
- B2845-5 5 mg

**STRUCTURE:**

**MOLECULAR FORMULA:** C₁₅H₁₆BrN₃O₃S

**MOLECULAR WEIGHT:** 398.3

**CAS NUMBER:** 389850-21-9

**APPEARANCE:** A crystalline solid

**PURITY:** ≥95%

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

**DESCRIPTION:** p-nitro-Pifithrin-α is a cell-permeable analog of pifithrin-α. Pifithrin-α is an inhibitor of p53 that blocks p53-dependent apoptosis. p-nitro-Pifithrin-α blocks p53-mediated expression of p21/WAF1 and apoptosis in cortical neurons more potently than pifithrin-α. It suppresses the expression of TGF-β1 in human proximal tubular cells (HK-2 cells) at a concentration of 10 μM. It reduces hepatic triglyceride accumulation and lipotoxicity in mice fed a high fat diet.

**STORAGE TEMPERATURE:** -20ºC. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

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

**REFERENCES:**

**RELATED PRODUCTS:**
- Pifithrin-α, Cyclic, hydrobromide (Cat. No. 2270)
- Pifithrin-α (Cat. No. 1554)
- NSC 66811 (Cat. No. 2009)
- Myriocin (ISP-1) (Cat. No. 2567)
- Nimbolide (Cat. No. 1891)

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