BioVision

PRODUCT: Pifithrin-µ

ALTERNATE NAME:	2-phenylethyne-1-sulfonamide; NSC-303580

CATALOG #:	B1083-5, 25
AMOUNT:	5 mg, 25 mg
STRUCTURE:	
MOLECULAR FORMULA:	C ₈ H ₇ NO ₂ S
MOLECULAR WEIGHT:	181.21
CAS NUMBER:	64984-31-2
APPEARANCE:	White Solid
SOLUBILITY:	DMSO (>15 mg/ml)
PURITY:	≥98% by HPLC
STORAGE:	Store at -20°C. Protect from air and light.
DESCRIPTION:	Pifithrin- μ (PFT- μ) is an inhibitor of p53-mediated apoptosis, preventing p53 binding to Bcl-xL and Bcl-2 at the mitochondria without affecting p53 transactivational activities. In vitro, PFT- μ binds both p53 (K _d = 0.82 mM) and Bcl-xL (K _d = 0.80 mM). It reduces p53-mediated apoptosis induced by γ -radiation in mouse thymocytes <i>in vitro</i> and protects mice from doses of radiation that cause lethal hematopoietic syndrome. At 25 μ M, PFT- μ reduces apoptosis triggered by nutlin-3, which inhibits MDM2/p53 binding and potentiates p53-mediated growth arrest and apoptosis.
REFERENCES:	Strom, E., et al. (2006). Nat. Chem. Biol. 2, 474-479
HANDLING:	Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Pifithrin-α **(1554)** Pifithrin-α, cyclic, Hydrobromide **(2270)** Pifithrin-μ **(B1083)**

USAGE:

FOR RESEARCH CH USE ONLY! Not to be used in humans