



# Data Sheet

Research Use Only

## Compound Name

Pifithrin  $\mu$

## Alternative Names

PFTu, NSC 303580, PIF, 2-Phenylethynesulfonamide

## Catalog Number

SM29

## Activity

Pifithrin  $\mu$  selectively interacts with HSP70 and disrupts its association with co-chaperones and substrate proteins. It induces apoptosis and is cell permeable. Also, inhibits p53 binding to mitochondria by reducing its affinity for antiapoptotic proteins Bcl-2 and Bcl-XL.

## Effect

Pifithrin  $\mu$  rescues cells from lethal  $\gamma$ -irradiation-induced cell death.

## Purity

>98%

## CAS

64984-31-2

## Formula

$C_8H_7NO_2S$

## Molecular Weight

181.20

## Solubility

DMSO

## Stability

Stable at  $-20^{\circ}C$ . Keep away from direct sunlight.

## References

1. Strom, E., et al. 2006. Nat Chem Biol. 2: 474-479. PMID: 16862141
2. Xu, X., et al. 2010. Biotechnol Prog. 26: 781-788. PMID: 20014103
3. Steele, A.J., et al. 2009. Blood. 114: 1217-1225. PMID: 19515722
4. Vaseva, A.V., et al. 2009. Cell Cycle. 8: 1711-1719. PMID: 19411846
5. Drakos, E., et al. 2009. Leukemia. 23: 2290-2299. PMID: 19741726
6. Hagn, F., et al. 2010. J. Biol. Chem. 285: 3439-3450. PMID: 19955567