



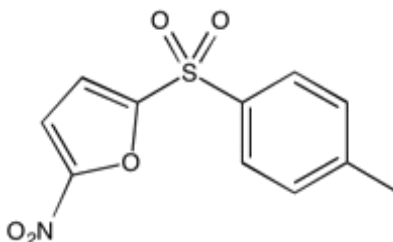
Catalog # 10-1418

NSC69723

CAS# 343351-67-7

2-[(Methylphenyl)sulfonyl]-5-nitrofuran

Lot # S103055



Selective inhibitor of E2 ubiquitin-conjugating enzyme, Ubc13-Uev1A. Does not inhibit UbcH5c activity. Impedes the formation of the Ubc13 and inhibits NF- κ B activation in activated B cell-like diffuse large B-cell lymphoma (ABC-DLBCL) cells¹. Blocks proliferation and survival of both ABC-DLBCL and germinal center B cell-like (GCB)-DLBCL cell lines, and survival of primary DLBCL cells. Acts via covalent bonding to E2 active site thiol^{2,3}. Induces neuroblastoma cell death via activation of p53 and JNK⁴.

- 1) Pulvino *et al.* (2012), *Inhibition of proliferation and survival of diffuse large B-cell lymphoma cells by a small-molecule inhibitor of the ubiquitin-conjugating enzyme Ubc13-Uev1A*; Blood, **120** 1668
- 2) Strickson *et al.* (2013), *The anti-inflammatory drug BAY 11-7082 suppresses the MyD88-dependent signalling network by targeting the ubiquitin system*; Biochem. J., **451** 427
- 3) Hodge *et al.* (2015), *Covalent Inhibition of Ubc13 Affects Ubiquitin Signaling and Reveals Active Site Elements Important for Targeting*; ACS Chem. Biol. **10** 1718
- 4) Cheng *et al.* (2014), *A small-molecule inhibitor of UBE2N induces neuroblastoma cell death via activation of p53 and JNK pathways*; Cell Death Dis., **5** e1079

PHYSICAL DATA

Molecular Weight:	267.26
Molecular Formula:	C ₁₁ H ₉ NO ₅ S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml), or Ethanol (up to 5 mg/ml with warming)
Physical Description:	Pink solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month ¹ .

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