



Xcess Biosciences Inc.

7144 N Harlem Ave #169
Chicago, IL 60631 USA

<http://www.xcessbio.com>

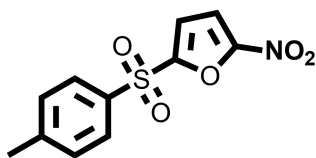
Toll free: 1-866-706-2330

Fax: 1-619- 810-0718

Email: info@xcessbio.com

Ub-conjugating Enzyme (E2) Inhibitor – NSC697923

Chemical Name: 2-nitro-5-tosylfuran



Molecular Weight:	267.26
Formula:	C ₁₁ H ₉ NO ₅ S
Purity:	≥98%
CAS#:	343351-67-7
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

NSC697923 is a cell permeable, potent and selective inhibitor of the Ub-conjugating enzyme (E2) complex Ubc13-Uev1A. It selectively inhibits PMA-induced NF-κB activation, and also inhibits IκBα phosphorylation by both RANKL and LPS. It impedes the formation of the Ubc13 and ubiquitin thioester conjugate and suppresses constitutive NF-κB activity in ABC-DLBCL cells. It inhibits the proliferation and survival of ABC-DLBCL cells and GCB-DLBCL cells, suggesting the Ubc13-Uev1A may be crucial for DLBCL growth. In neuroblastoma (NB) cell lines, NSC697923 shows cytotoxic effect, and inhibits both anchorage-dependent and -independent colony formation. It also shows in vivo antitumor efficacy in NB orthotopic xenografts.

How to Use:

In vitro: NSC697923 was used at 1-5 μM final concentration in various in vitro assays.

In vivo: NSC697923 was administered by IP injection at 10 mg/kg once per day in SH-SY5Y and NGP xenografts.

Reference:

1. Pulvino M, et al. Inhibition of proliferation and survival of diffuse large B-cell lymphoma cells by a small-molecule inhibitor of the ubiquitin-conjugating enzyme Ubc13-Uev1A. (2012) *Blood*. 120(8):1668-77.
2. Cheng J, et al. A small-molecule inhibitor of UBE2N induces neuroblastoma cell death via activation of p53 and JNK pathways. (2014) *Cell Death Dis*. 5:e1079.

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