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Background	NSC-697923 is a small-molecule inhibitor of the E2 ubiquitin-conjugating enzyme Ubc13-Uev1A. NSC- 697923 blocked formation of Ubc13 and ubiquitin thioester conjugates, and suppressed constitutive NF- κ B activity in diffuse large B cell lymphoma cells. Inhibition of ubiquitin-dependent DNA damage signaling was observed, but not formation of the phosphorylated form of histone variant H2AX, which is consistent with NSC-697923 targeting of nuclear Ubc13 (1). Additional data suggested that NSC-697923 interacted with the Ubc13 active site cysteine (2). UBE2N (Ubc13) is an E2 ubiquitin-conjugating enzyme that catalyzes K63-linked poly-Ub chain formation. UBE2N forms a heterodimer with MMS2 or Uev1A to exert its E2 ligase function (3). NSC-697923 treatment of neuroblastoma cells increased apoptosis and nuclear p53 accumulation, and enhanced tumor suppression (4). NSC-697923 also inhibited caspase-1 enzymatic activity (IC ₅₀ = 1.737 μ M) and NLRP3 protein expression by suppressing the NF- κ B signaling pathway. NSC-697923 inhibited joint swelling and NLRP3 inflammasome activation in an animal model of gouty arthritis (5).	
Molecular Formula	$C_{11}H_9NO_5S$	
Molecular Weight	267.3 g/mol	
Purity	>98%	
CAS	343351-67-7	
Solubility	Soluble in DMSO at 25 mg/mL or ethanol at 5 mg/mL.	
Storage	Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 1 month to prevent loss of potency. <i>Aliquot to avoid multiple freeze/thaw cycles</i> .	
Directions for Use:	NSC-697923 is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 1 mg of powder in 0.37 mL of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.	
Background References	 Pulvino, M. et al. (2012) <i>Blood</i> 120, 1668-77. Hodge, C.D. et al. (2015) <i>ACS Chem Biol</i> 10, 1718-28. Herrmann, J. et al. (2007) <i>Circ Res</i> 100, 1276-91. Cheng, J. et al. (2014) <i>Cell Death Dis</i> 5, e1079. Cao, D.Y. et al. (2022) <i>Immunol Lett</i> 244, 28-39. 	
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected	
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