Revision	1	
11011	•	

50 KU-55933	Ст	Cell Signaling	
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9 5 mg	Support:	877-678-TECH (8324)	
#8334	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane   Danvers   Mas	sachusetts   01923   USA	
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Background	KU-55933 is a potent and selective ATP-competitive inhibitor of ATM kinase (IC <sub>50</sub> = 13 nM and $K_i$ = 2.2 nM). This small molecule has been shown to sensitize cancer cells to ionizing radiation and chemotherapeutic agents (1). Treating senescent cancer cells (MCF7, A549, and HCT 116) with KU-55933 results in decreased viability and cell death (2). KU-55933 has neuroprotective capabilities by preventing damage caused by oxidative stress (3).
Molecular Formula	C <sub>21</sub> H <sub>17</sub> NO <sub>3</sub> S <sub>2</sub>
Molecular Weight	395.5 g/mol
Purity	>98%
CAS	587871-26-9
Solubility	Soluble in DMSO at 40 mg/ml or ethanol at 20 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	KU-55933 is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 5 mg of powder in 1.26 ml of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.
Background References	1. Hickson, I. et al. (2004) <i>Cancer Res</i> 64, 9152-9. 2. Crescenzi, E. et al. (2008) <i>Clin Cancer Res</i> 14, 1877-87. 3. Chwastek, J. et al. (2017) <i>Int J Biochem Cell Biol</i> 87, 38-53.
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