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ATM Inhibitor, KU 60019 - CAS 925701-46-8 - Calbiochem ATM kinase inhibitor, KU60019, is a cell permeable, potent inhibitor of ATM kinase inhibitor (IC?? = 6.3 nM). Has 270 & 1600-fold higher selectivity over DNA-PK and ATR kinase.

Art. ID	SAF-5319780001
Unit	EA
Deliverydetails	No Dangerous Good /not restricted

Description

A cell permeable thioxanthene based compound that acts as a highly potent inhibitor of Ataxia telangiectasia mutate (ATM) kinase inhibitor (IC50 = 6.3 nM). Displays about 270 and 1600-fold greater selectivity over DNA-PK and ATR kinase (IC50 = 1.7 and >10 &#181,M, respectively). Has only a trivial effect on 229 protein kinases when screened in a panel at 1 &#181,M level. Shown to block Ser15 phosphorylation of p53 and basal and radiation-induced Ser473 phosphorylation of Akt in glioma cells. Blocks radiation-induced DNA damage response and radiosensitizes human glioma cells (U87 and U1242) and mouse glioma stem cells and inhibits glioma cell migration, invasion, and growth. Also radiosensitizes orthotopic glioma xenografts and significantly extends the survival of mice., ATM kinase inhibitor, KU60019, is a cell permeable, potent inhibitor of ATM kinase inhibitor (IC&#8325,&#8320, = 6.3 nM). Has 270 & 1600-fold higher selectivity over DNA-PK and ATR kinase., A cell permeable thioxanthene based compound that acts as a highly potent inhibitor of Ataxia telangiectasia mutate (ATM) kinase inhibitor (IC50 = 6.3 nM). Displays about 270 and 1600-fold greater selectivity over DNA-PK and ATR kinase (IC50 = 1.7 and >10 &#181,M, respectively). Has only a trivial effect on 229 protein kinases when screened in a panel at 1 &#181,M level. Shown to block Ser15 phosphorylation of p53 and basal and radiation-induced Ser473 phosphorylation of Akt in glioma cells. Blocks radiation-induced DNA damage response and radiosensitizes human glioma cells (U87 and U1242) and mouse glioma stem cells and inhibits glioma cell migration, invasion, and growth. Also radiosensitizes orthotopic glioma xenografts and significantly extends the survival of mice.Please note that the molecular weight for this compound is batch-specific due to variable water content. Please refer to the vial label or the certificate of analysis for the batch-specific molecular weight. The molecular weight provided represents the baseline molecular weight without water.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	KU-60019 (TRC)	[925701-46-8]				