

AZD6738

Art. ID TRC-A965423-1MG
Unit 1 mg
Deliverydetails De Minimis

Description

Application Note: AZD6738 is an orally available morpholino-pyrimidine-based inhibitor of ataxia telangiectasia and rad3 related (ATR) kinase, with potential antineoplastic activity. Upon oral administration, ATR kinase inhibitor AZD6738 selectively inhibits ATR activity by blocking the downstream phosphorylation of the serine/threonine protein kinase CHK1. This prevents ATR-mediated signaling, and results in the inhibition of DNA damage checkpoint activation, disruption of DNA damage repair, and the induction of tumor cell apoptosis. In addition, AZD6738 sensitizes tumor cells to chemo- and radiotherapy. ATR, a serine/threonine protein kinase upregulated in a variety of cancer cell types, plays a key role in DNA repair, cell cycle progression, and survival, it is activated by DNA damage caused during DNA replication-associated stress.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	AZD6738	[1352226-88-0]				