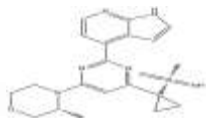


PRODUCT: AZD-6738**RELATED PRODUCTS:**

ETP-46464 (2457)

VE-822 (2840)

ALTERNATE NAME: 4-[4-[1-[[S(R)]-S-methylsulfonimidoyl]cyclopropyl]-6-[(3R)-3-methyl-4-morpholinyl]-2-pyrimidinyl]-1H-pyrrolo[2,3-b]pyridine**CATALOG #:** B1167-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C₂₀H₂₄N₆O₂S**MOLECULAR WEIGHT:** 412.51**CAS NUMBER:** 1352226-88-0**APPEARANCE:** White solid**SOLUBILITY:** DMSO (~0.5 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light.**DESCRIPTION:** AZD6738 is a potent ATR kinase inhibitor with IC₅₀ value of 1 nM against the isolated enzyme. 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. It also induces cell death and senescence in non-small cell lung cancer (NSCLC) cell lines.**REFERENCES:** Vendetti, F.P. *et al.* (2015), *Oncotarget*, **6**, 44289-44305.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**