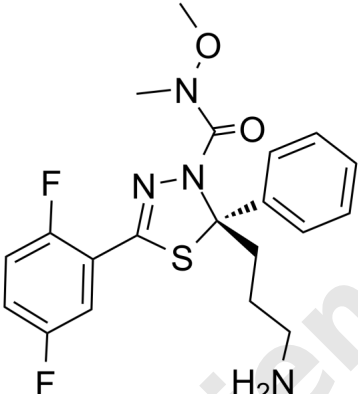


Data Sheet

Product Information

Catalog Number	BP13022
Product Name	Filanesib
Description	ARRY-520 (Filanesib) is a synthetic kinesin spindle protein (KSP) inhibitor (IC ₅₀ : 6 nM).
Targets&IC ₅₀	KSP:6 nM
In vitro	ARRY-520 retains activity in multidrug-resistant cell lines. The EC ₅₀ s of ARRY-520 for inhibition of proliferation of HCT-15, NCI/ADR-RES and K562/ADR cells are 3.7, 14 and 4.2 nM respectively. ARRY-520 (10 nM) blocks a majority of cells in mitosis with the monopolar spindle structure typical of KSP inhibition . ARRY-520 (10 nM) induces mitotic arrest as judged by both increased phosphorylation of histone H3 and the accumulation of cyclin B1 in four cells . ARRY-520 and Paclitaxel exhibit the same cytotoxic effect on Type I and II cells. The GI ₅₀ at 48 h for Type II EOC cells is 0.0015 μM for ARRY-520. For Type I EOC cells, the GI ₅₀ at 48 h is > 3 μM for ARRY-520. ARRY-520 (1 nM) induces a significant G2M cell cycle block in OCI-AML3 cells at 24 hours .
In vivo	ARRY-520 (10, 15, 20, 30 mg/kg, i.p.) is active in UIISO-BCA-1 xenograft, and also superior to paclitaxel in mice bearing subcutaneous HT-29, HCT-116, MDA-MB-231 and A2780 xenografts. ARRY-520 is superior to docetaxel in the androgen receptor-negative prostate cancer xenograft model PC-3 . RPMI 8226 tumor xenografts are particularly sensitive to low doses of ARRY-520 (12.5 mg/kg, i.p.) . ARRY-520 significantly inhibits tumor growth in HL60 and MV4-11 xenografts of SCID mice at concentrations of 27 mg/kg and 20 mg/kg, respectively .
Synonyms	ARRY 520
CAS No.	885060-09-3

Chemical Formula	C ₂₀ H ₂₂ F ₂ N ₄ O ₂ S
Molecular Weight	420.48
Solubility	DMSO: 95 mg/mL (225.93 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

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v2 Revision on 12/28/2022