Product Data Sheet

Product Name: ASR-490
Cat. No.: GC68701

Chemical Properties

Cas. No.	2690312-67-3		
Formula	$C_{34}H_{41}NO_7$	M.Wt	575.69
Solubility	DMSO : 25 mg/mL (43.43 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	ASR-490		

Background

ASR-490 reduces the viability of HCT116 and SW620 cells by downregulating **Notch1** signaling. ASR-490 overcomes Notch1 overexpression and inhibits the growth of HCT/Notch1 transfectants. ASR-490 inhibits the tumor growth in control (pCMV/HCT116) and Notch1/HCT116 in xenotransplanted mice[1].

ASR-490 (0-1.6 μM; 24 h, 48 h) reduces the viability of HCT116 and SW620 cells in 24h (IC_{50} =750 nM in HCT116 cells, IC_{50} =1.2 μM in SW620 cells) and 48h (IC_{50} =600 nM in HCT116 cells, IC_{50} =850 nM in SW620 cells)[1].ASR-490 (750 nM in HCT116 cells and 1.2 μM in SW620 cells, 24 h) shows apoptotic cell death and upregulation of the proapoptotic markers Bax and cleaved PARP Expression; inhibits the capability of colorectal cancer cells[1].ASR-490 (HCT116 cells; 750 nM in 24 h, 600 nM in 48 h) overcomes Notch1 overexpression and inhibits the growth of HCT/Notch1 transfectants[1].

Cell Viability Assay[1]

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Cell Line:	HCT116, SW620 cells
Concentration:	0-1.6 μM
Incubation Time:	24 h, 48 h
Result:	Reduced the viability of HCT116 and SW620 cells in 24h (IC_{50} =750 nM in HCT116 cells, IC_{50} =1.2 μM in SW620 cells) and 48h (IC_{50} =600 nM in HCT116 cells, IC_{50} =850 nM in SW620 cells).

Apoptosis Analysis[1]

Cell Line:	HCT116, SW620 cells
Concentration:	750 nM in HCT116 cells and 1.2 μM in SW620 cells
Incubation Time:	24 h
Result:	Showed apoptotic cell death and upregulation the proapoptotic markers Bax and cleaved PARPExpression, inhibited the capability of colorectal cancer cells.

Cell Proliferation Assay[1]

Cell Line:	HCT116 cells
Concentration:	750 nM in 24 h, 600 nM in 48 h
Incubation Time:	24 h, 48 h
Result:	Overcome Notch1 overexpression and inhibited the growth of HCT/Notch1 transfectants.

ASR-490 (5 mg/kg; i.p.; thrice a week for 4 weeks) inhibits the tumor growth in control (pCMV/HCT116) and Notch1/HCT116 in xenotransplanted mice[1].

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Animal Model:	Six- to 8-week-old BALB/c atmic nude mice (nu/nu) (pCMV/HCT116and Notch1/HCT116 (C4) xenografts)[1].
Dosage:	5 mg/kg
Administration:	i.p., thrice a week for 4 weeks
Result:	Inhibited the tumor growth in control (pCMV/HCT116) and Notch1/HCT116 in xenotransplanted mice.

[1]. Tyagi A, et al. ASR490, a Small Molecule, Overrides Aberrant Expression of Notch1 in Colorectal Cancer. Mol Cancer Ther. 2020; 19(12):2422-2431.

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