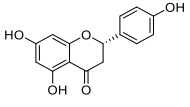
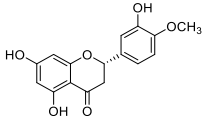
Supplementary Figure 1

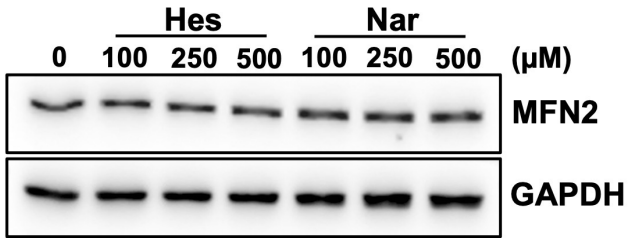
Compound	Content (ppm)
Hes	210.7 ± 6.5
Nar	85.4 ± 5.4

Supplementary Figure 2

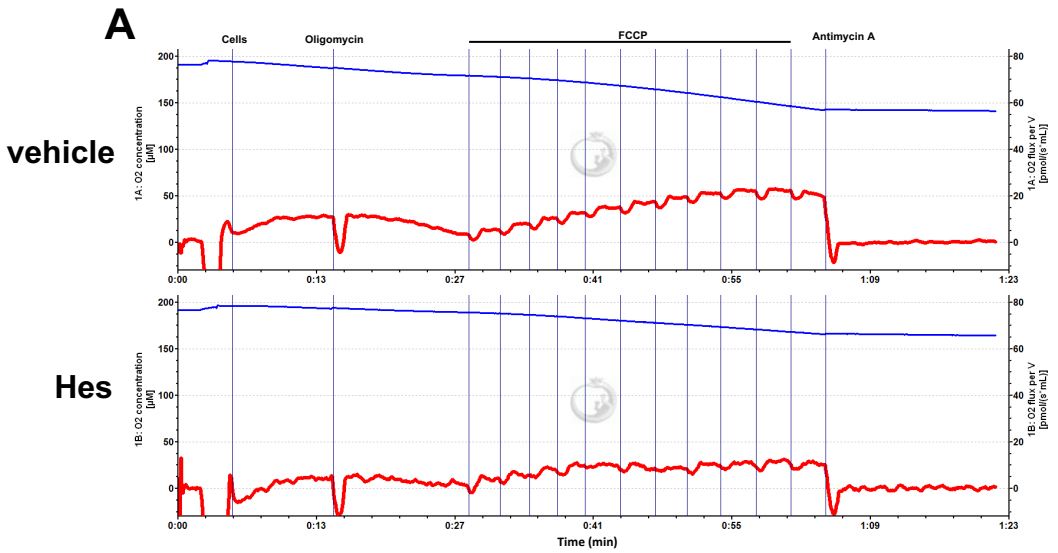
Binding energies for NAR and HES and key interactions with protein residues of Drp1

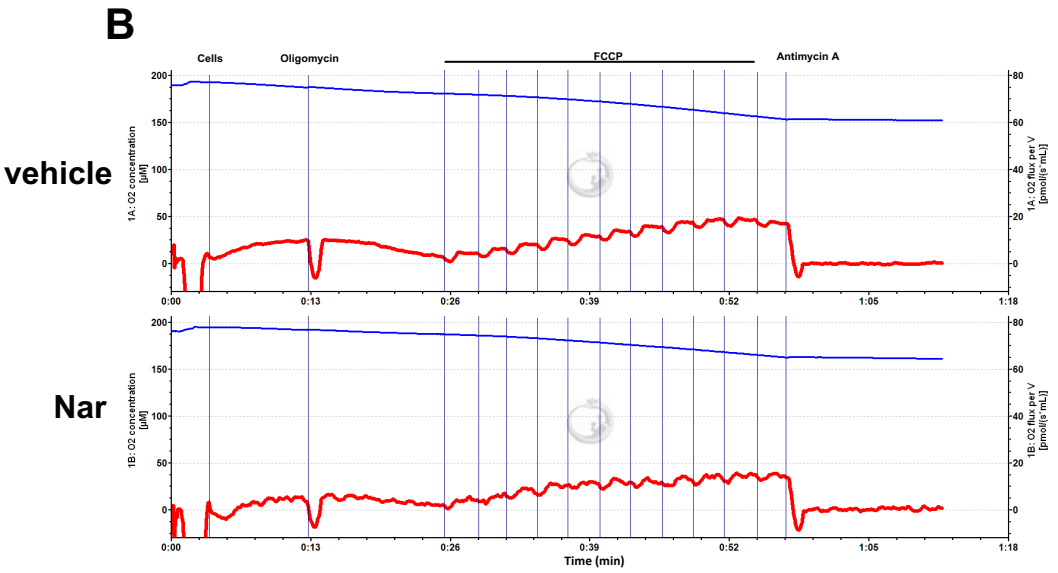
LIGAND	STRUCTURE	Binding Energy kcal/mol	INTERACTIONS				
			Hydrogen Bonds				Hydrophobic Interactions
			Residues	Distance (Å)		Donor-Hydrogen-Acceptor angle (°)	Residues
				H-A	D-A		
NAR		-7.4	Ser40	1.89	2.72	142.57	Lys216, Asn246
			Lys216	2.36	3.18	139.95	
			Asn246	2.29	3.20	152.91	
			Asn246	2.23	3.16	159.67	
			Gln249	2.69	3.59	152.46	
HES		-7.6	Ser40	2.43	3.26	144.00	Asn246
			Lys216	2.29	3.15	146.04	
			Asp218	3.13	4.02	152.16	
			Asn246	2.06	2.99	156.22	
			Gln249	3.09	3.97	149.92	

Supplementary Figure 3



Supplementary Figure 4





Supplementary Figure 5

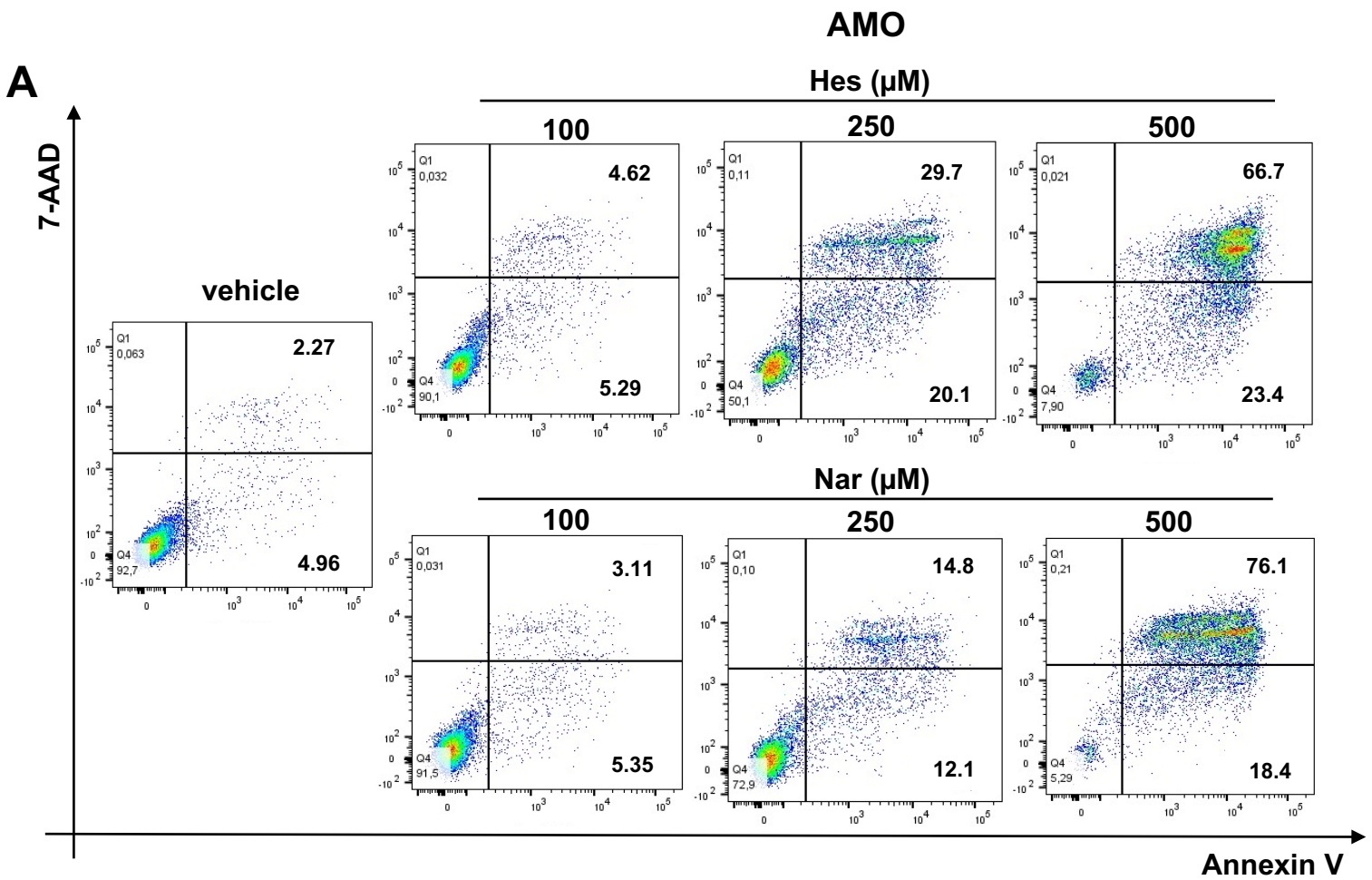
A

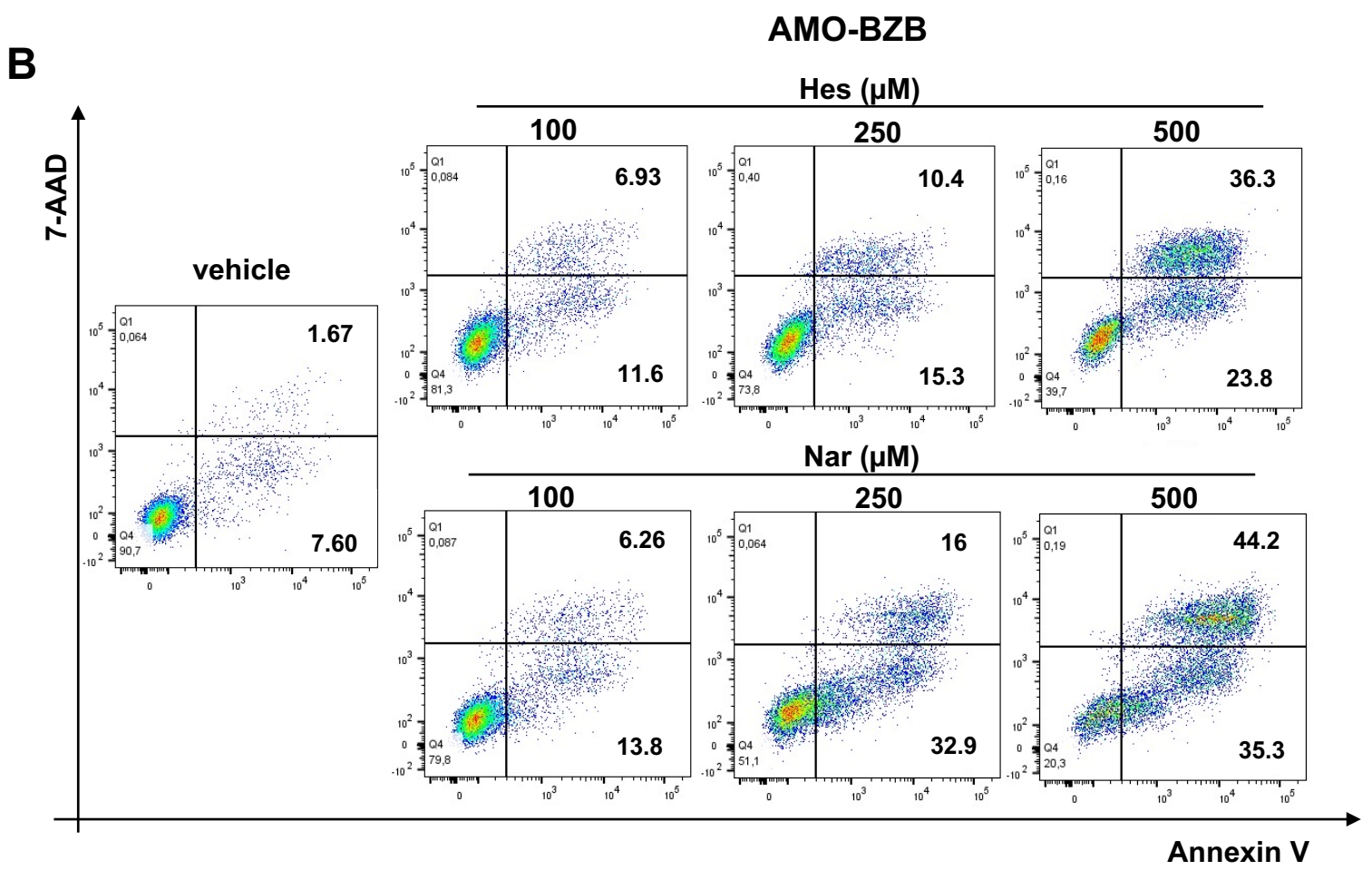
MM cell lines	IC_{50} Hes
AMO	202 μM
AMO-BZB	386.6 μM
H929	194.1 μM
H929-BZB	361.9 μM
H929-CFZ	257.7 μM

B

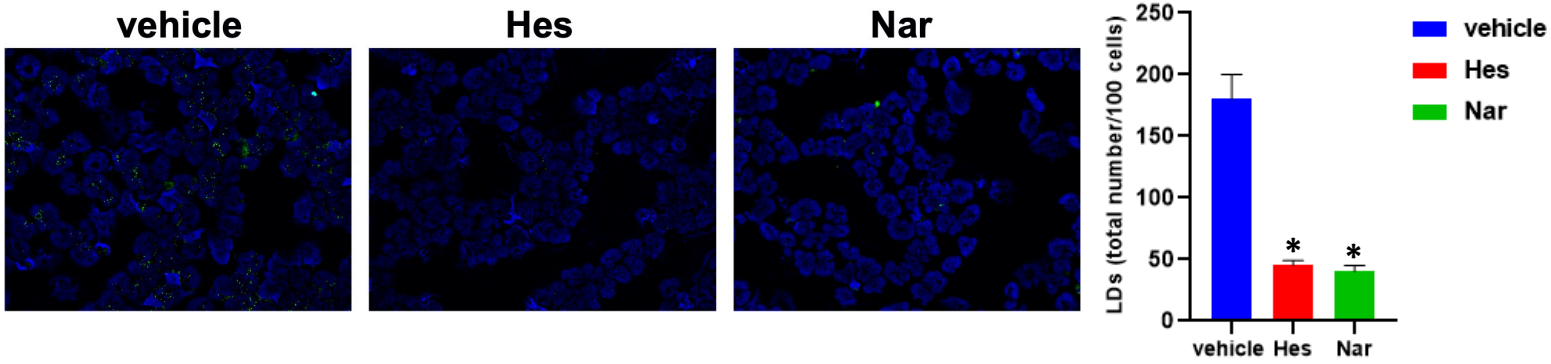
MM cell lines	IC_{50} Nar
AMO	264.8 μM
AMO-BZB	352.8 μM
H929	263.4 μM
H929-BZB	273.3 μM
H929-CFZ	300.3 μM

Supplementary Figure 6





Supplementary Figure 7



Supplementary Figure 8

vehicle

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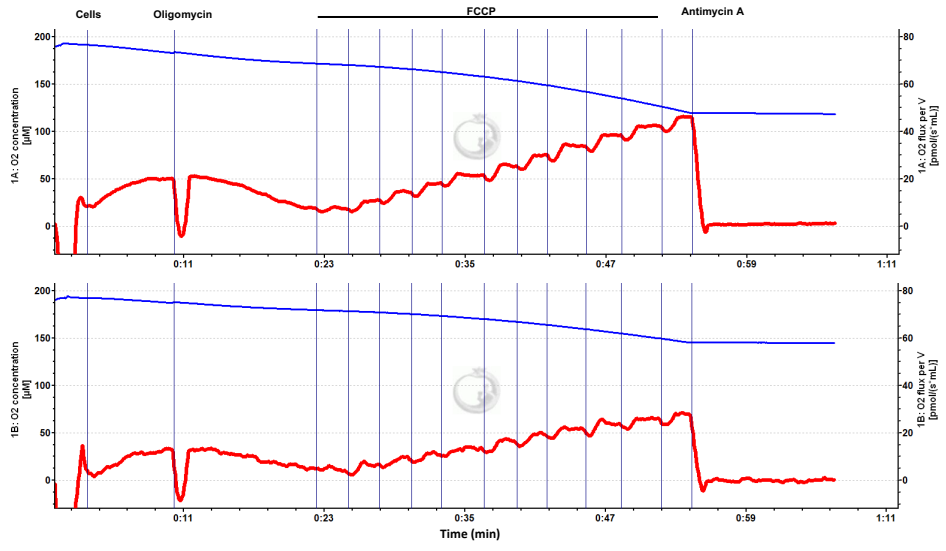
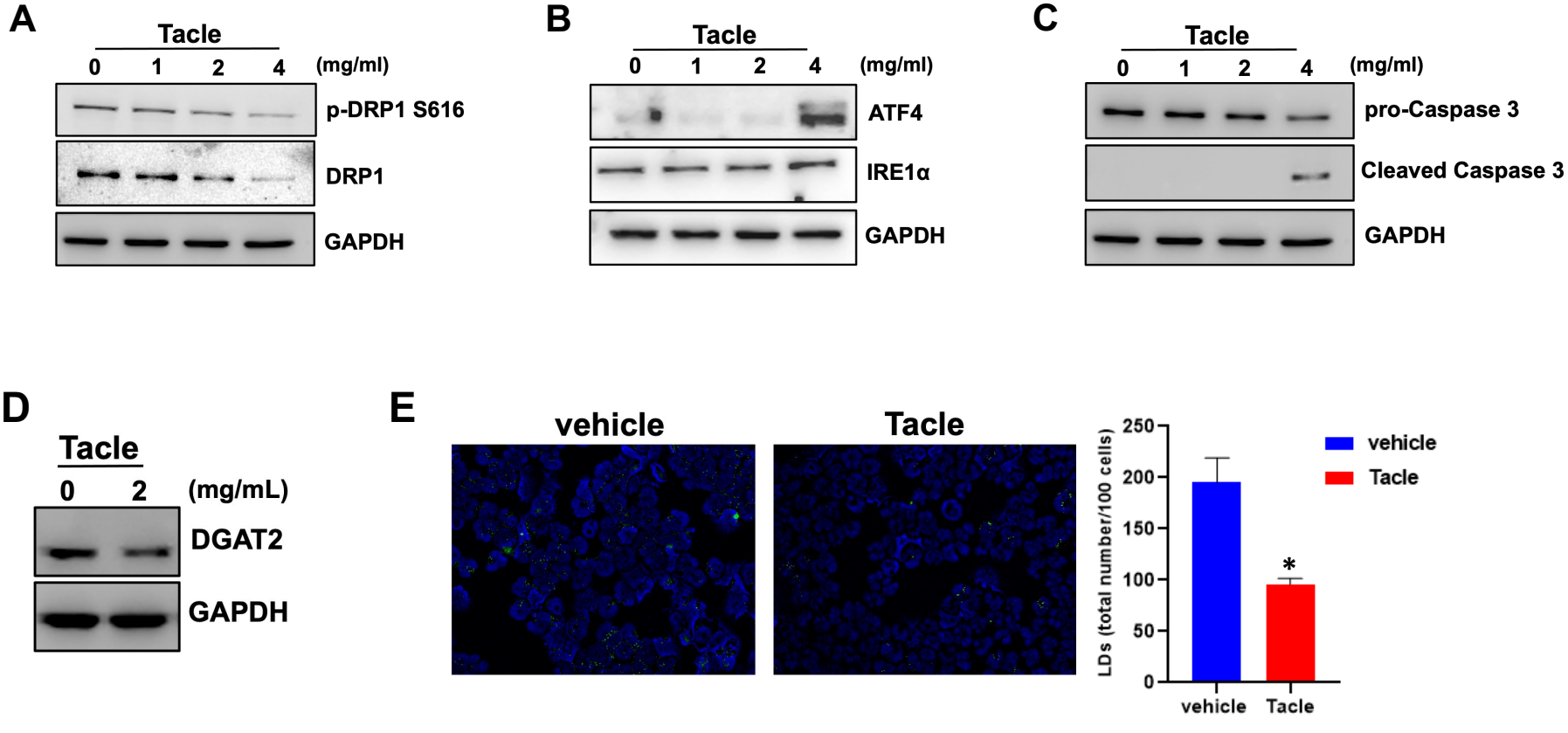
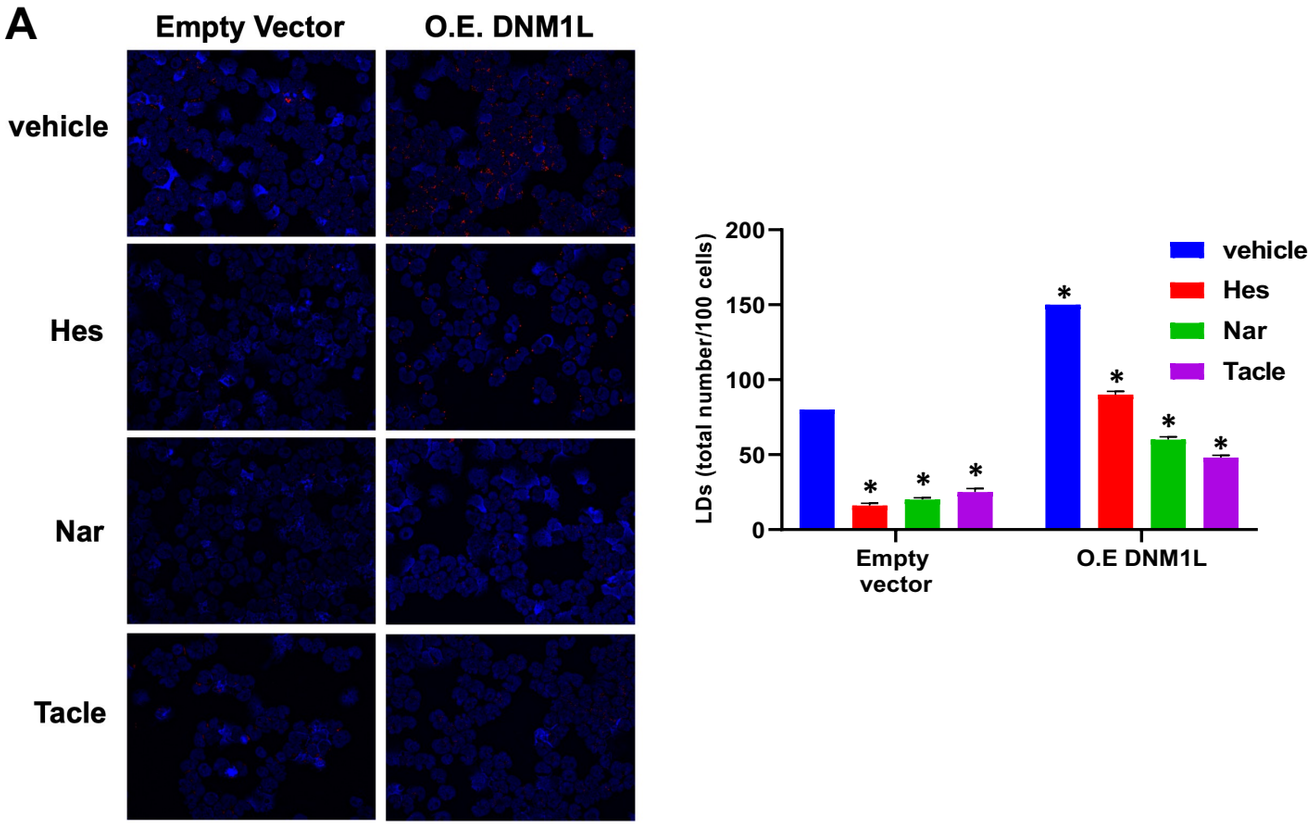


Supplementary Figure 9



Supplementary Figure 10



Supplementary Figure 11