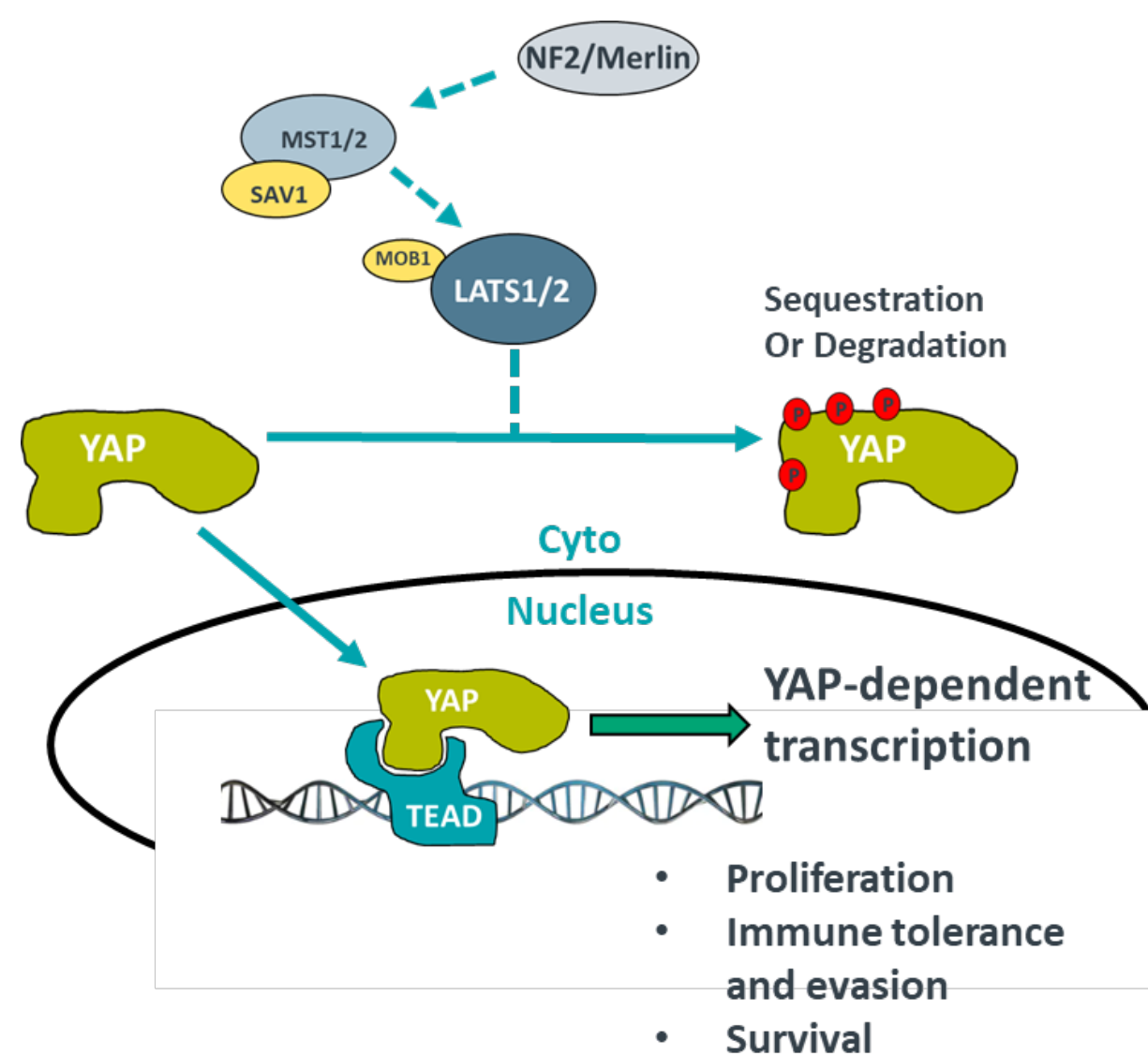
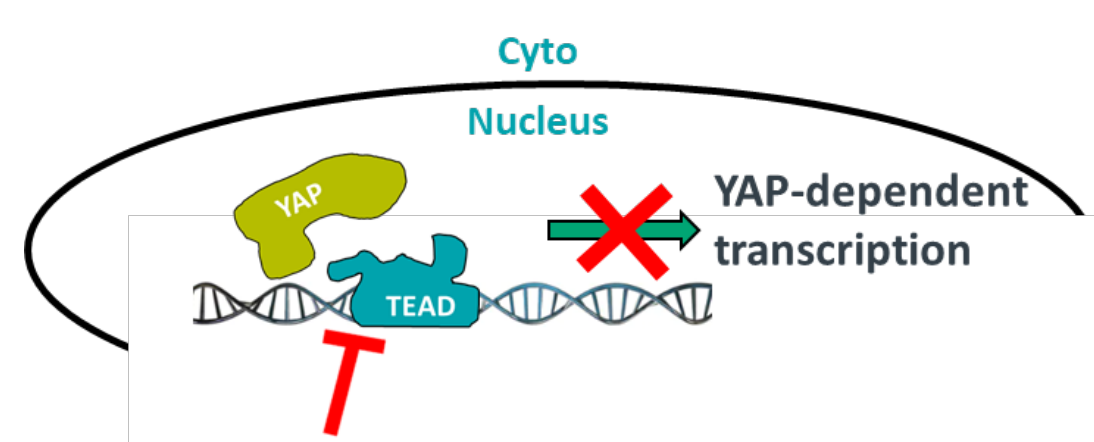


Hippo pathway overview



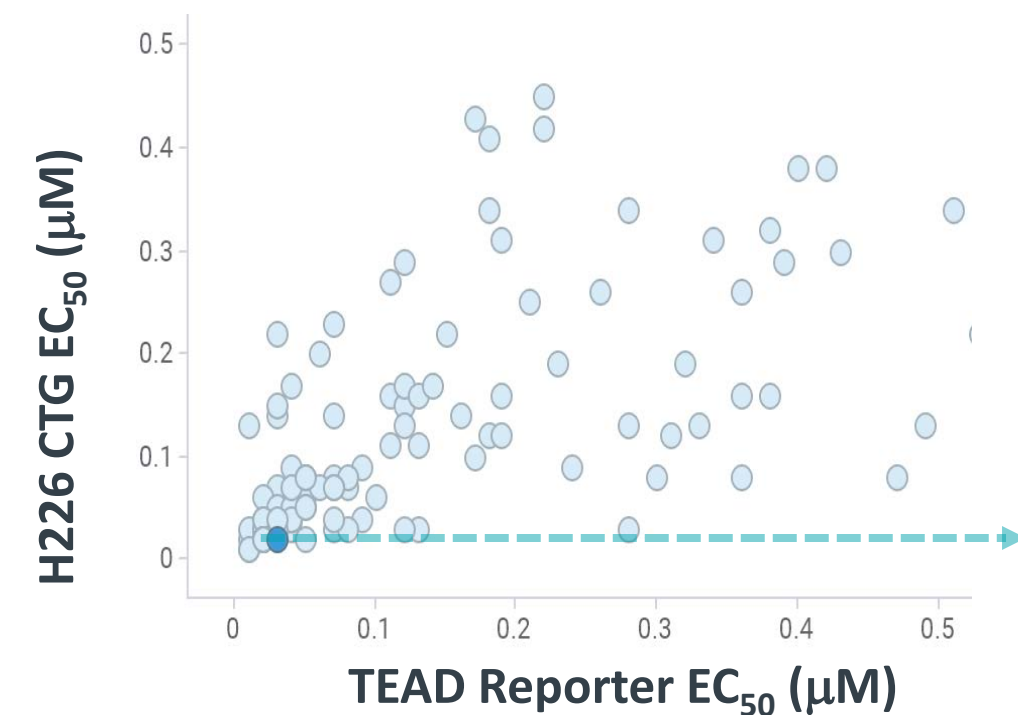
- Important signaling pathway for modulating cell growth and survival; often promiscuously activated by oncogenes to promote tumor growth.
- Highly mutated pathway across many indications in cancer; pathway activation is correlated with overall poor patient outcome.
- Multiple layers of regulation control the pathway by restricting nuclear translocation of YAP or TAZ, including sequestration and proteasome-dependent degradation.
- YAP/TAZ interaction with a member of the TEAD family of co-transcription factors drives essential gene transcription.
- Dysregulation can be induced by different mechanisms, such as loss-of-function mutations in upstream regulatory proteins of YAP/TAZ-TEAD, miRNA leading to loss of upstream gene translation, or loss of post-translational modifications of YAP/TAZ.



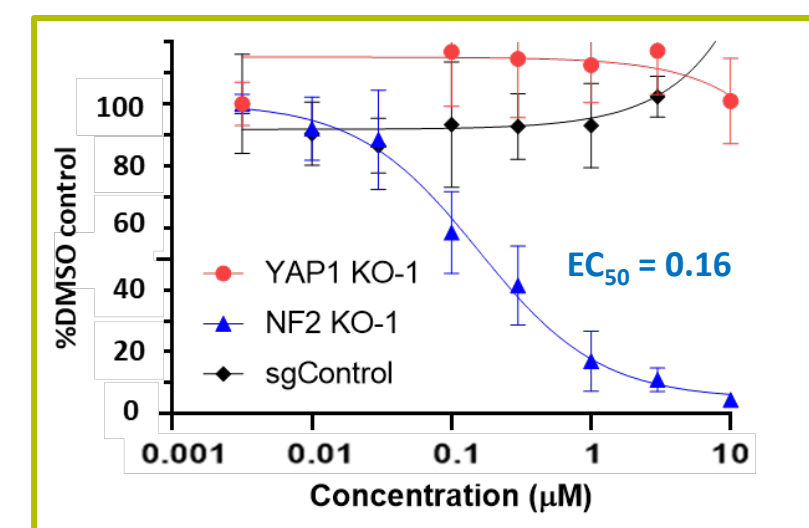
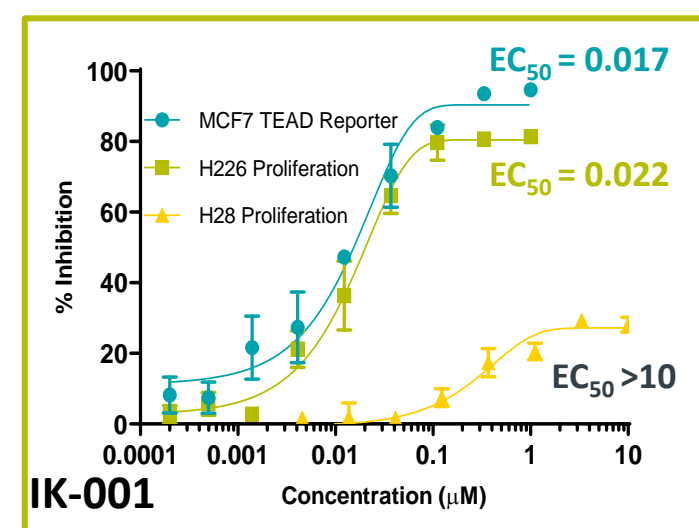
Ikena TEAD Inhibitors

- Novel compounds bind in the central lipid (palmitate) binding pocket of TEAD family members.
- Small molecule inhibitors disrupt YAP-TEAD dependent transcription.

Cell based activity demonstrates potency and selective anti-proliferative effects dependent on Hippo dysregulation



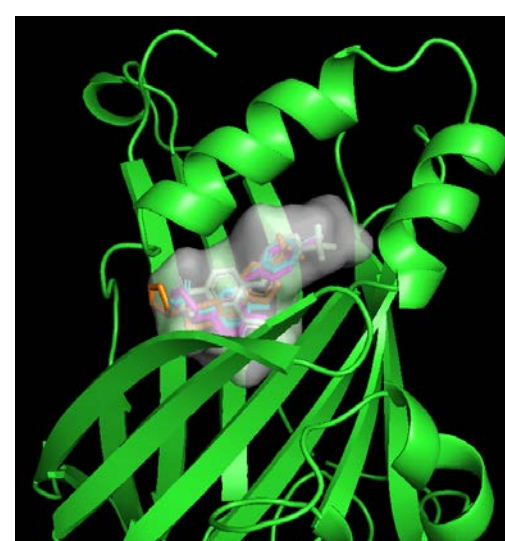
- Inhibition of TEAD-dependent reporter activity (MCF7, NF2 WT) correlates with inhibition of cell proliferation in H226 cells (NF2-deficient)



- Effect of IK-001 on cell proliferation is dependent on presence of Hippo/NF2 mutation (H28 cell line is NF2 wildtype)
- NF2 knockout in H28 cells confers sensitivity to TEAD inhibition

Co-crystal structures demonstrate compounds bind to lipid pocket

- Multiple high quality TEAD2 co-crystal structures with Ikena compounds
- Co-crystal structures with Ikena's irreversible and reversible inhibitors bound in central lipid pocket
- Observed binding interactions are consistent with established SAR

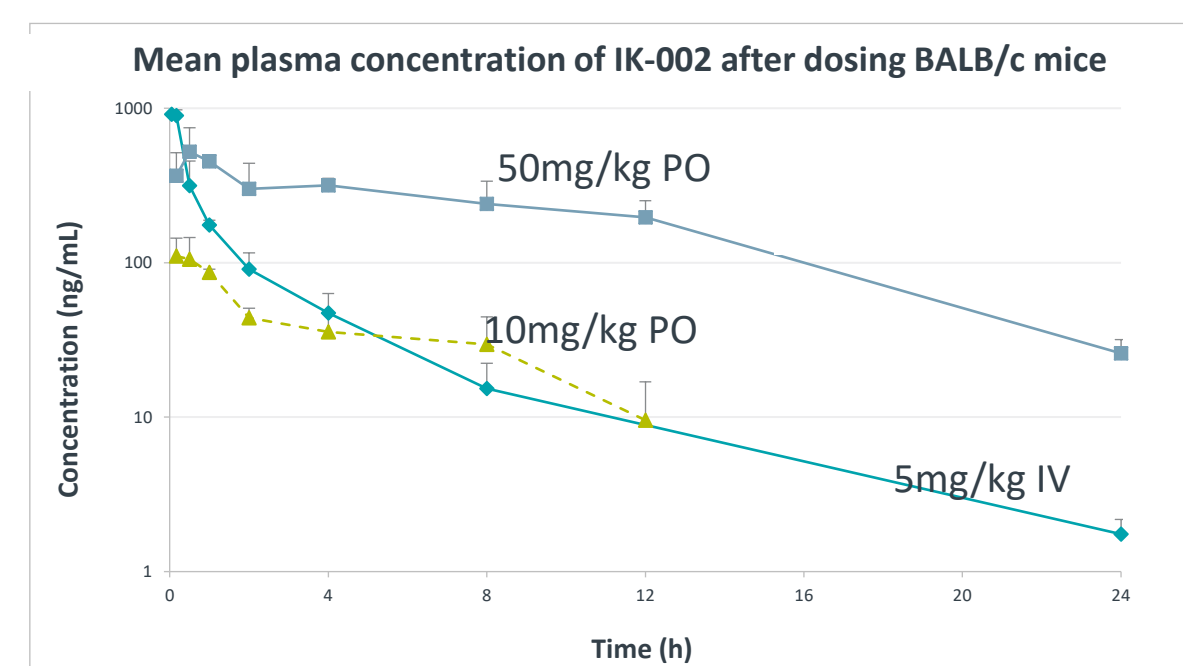


Anti-proliferation pilot cell line screen reveals additional candidate models of sensitivity for in vivo testing

A2058	STK11/PTEN	HT-1080	IDH1/NRAS	NCIH2452	EGFR
A2780	PIK3CA/PTEN	JHH4	p53	NCI-H28	VHL
A549	KRAS/STK11	LN-229	ERBB2/TEAD2	NCI-H292	NF2
ACHN	EPHA2/NF2	LOVO	KRAS/FBXW7	NCIH647	KRAS
AM-38	BRAF	MDAMB231	KRAS/NF2/(atypicalBRAF)	OE33	p53
ASPC1	p53/KRAS/CDK2NA	MDA-MB-468	p53	NCI-H2172	P53/EGFR/FBXW7
BxPC-3	p53	MKN74	APC	OVMANA	PIK3CA
Caki-1	NF2	MSTO211H	LATS1-PSEN	PANC-1	p53/KRAS
CALU1	KRAS	NCI-H1299	NRAS	SK-HEP-1	BRAF/NF2
Caov-3	p53	NCIH1563	STK11	SKOV-3	p53/PIK3CA/FBXW7
CFPAC1	p53/KRAS	NCIH1568	p53	SNU182	p53
COV362	EGFR	NCI-H1650	EGFR	SW1353	CDKN2A/IDH2
Daoy	p53	NCI-H1703	CDKN2A	SW1573	KRAS/STK11
DETROIT562	p53/PIK3CA	NCIH196	p53/PTEN	SW579	p53
DMS153	p53/NOTCH1	NCI-H1975	P53/EGFR/PIK3CA/CDKN2A	T24	HRAS
DMS53	p53/STK11	NCI-H2030	p53/KRAS	TE1	p53/Rb
DU145	STK11/NF2	NCIH2052	NF2	U251	p53/PTEN
DU4475	BRAF	NCIH2085	p53	U87MG	PTEN
HCC1143	p53	NCI-H2228	p53	YD8	p53
HCC827	p53/EGFR	NCI-H226	NF2	ZR751	PTEN
HCT116	PIK3CA/KRAS/CDKN2A				

- Cell lines were chosen based on the Cancer Dependency Score (<https://depmap.org/portal/achilles/>) and sampling of known interacting oncogenes
- Anti-proliferative effects of IK-001 were evaluated in a 3-day Cell TiterGlo™ assay. Cell lines with an EC₅₀ < 0.2µM or < 1.0µM are indicated
- Analysis is ongoing to explore in vitro to in vivo correlation as well as TEAD-specific expression profiles

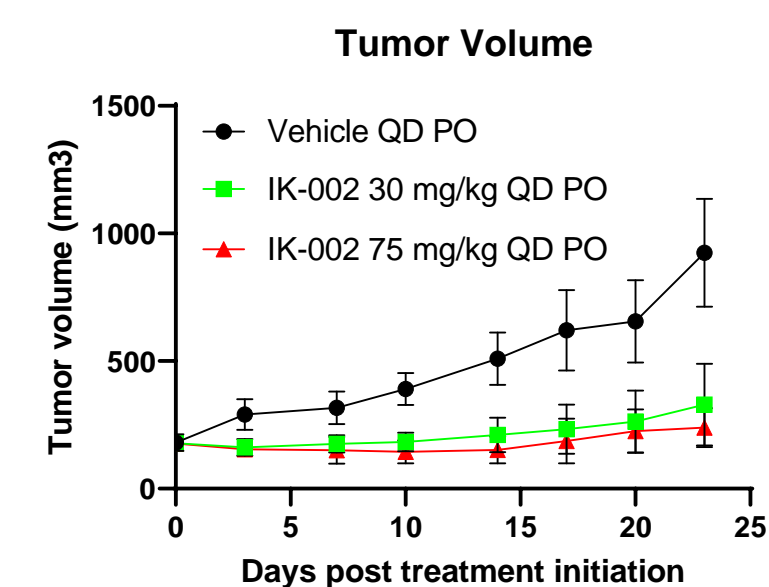
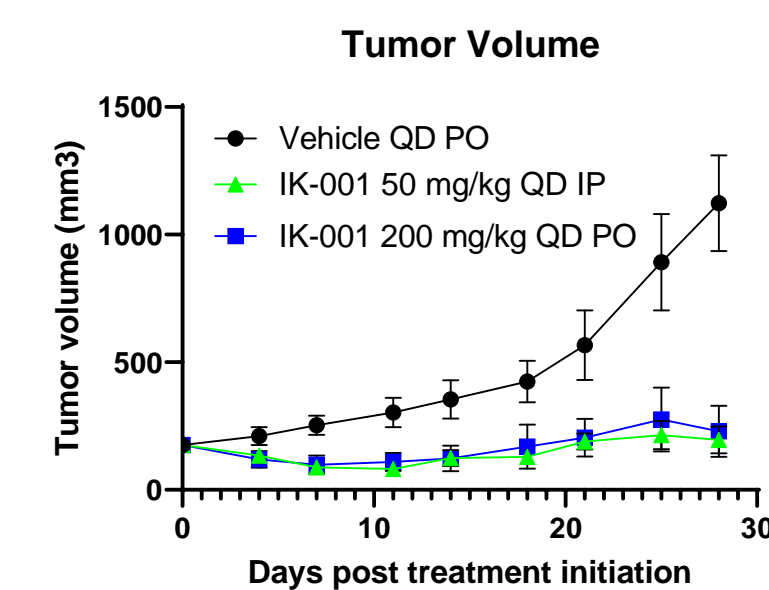
Ikena compounds demonstrate good ADME/PK properties



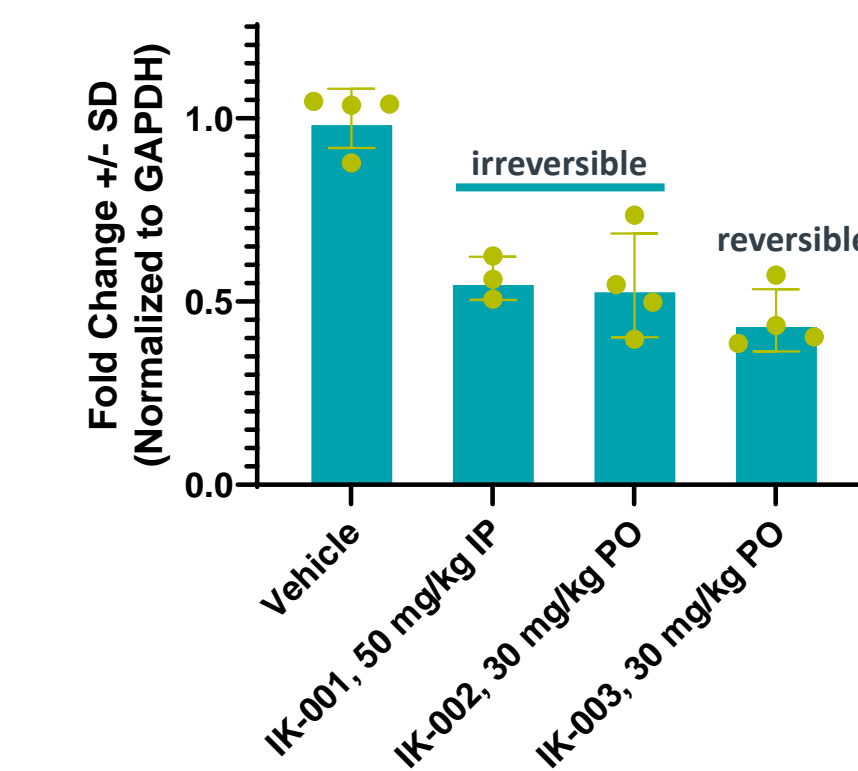
T_{1/2} = 4.4 h
V_d = 17 L/kg
Oral bioavailability = 26%

- Plasma levels of IK-002 were quantified from mice after receiving a single administration of compound

Antitumor Activity in H226 Xenograft

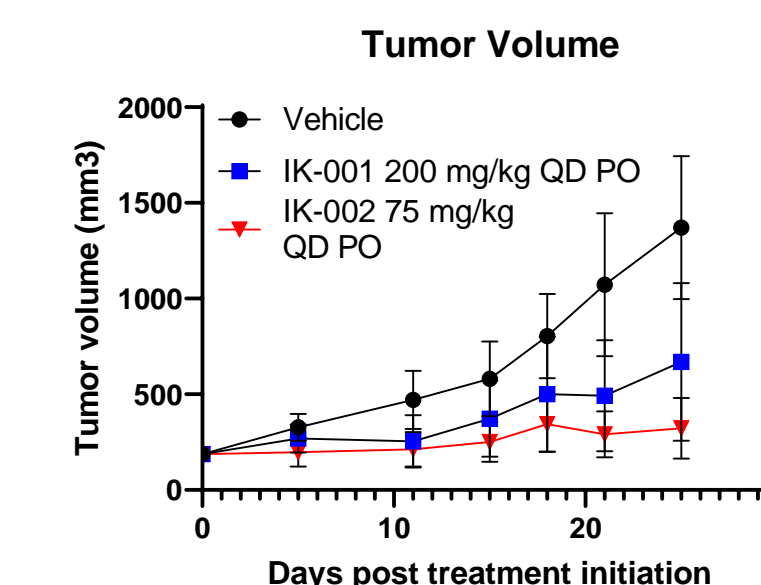


Ikena compounds display TEAD-dependent pharmacodynamic effects



- NCI-H226 tumor bearing mice were dosed for 3 consecutive days and tumors were collected and process 4h after the last dose. RNA was isolated and expression of TEAD-dependent genes was assessed by qPCR.
- Similar effects noted on CYR61, AMOTL2

Antitumor Activity in MSTO-211H Xenograft



- ✓ Robust efficacy with Ikena compounds at well tolerated daily oral doses
- ✓ No effect on body weight or organ damage throughout studies
- ✓ Dose response efficacy studies with advanced leads are in progress

Conclusions and Future Steps

- Ikena identified novel and selective small molecule inhibitors of TEAD with different modes of inhibition (reversible and irreversible) with low nanomolar potency and good oral bioavailability
- Co-crystal structures demonstrate inhibitors bind in central lipid binding pocket
- Oral administration leads to suppression of TEAD-dependent transcription in H226 tumors
- Efficacy was demonstrated in two mesothelioma xenograft models at well tolerated doses
- Ikena's TEAD inhibitors are being developed for cancer therapy in selected cancer patients with Hippo driven tumors
- A development candidate is expected in the second half of 2020