



IK-930, a Paralog Selective TEAD Inhibitor Effectively Attenuates Drug-Tolerant Persister Cell Proliferation

Download this poster and visit our website

INTRODUCTION

- The Hippo pathway kinase cascade negatively regulates the activity of transcription cofactor YAP/TAZ in a complex with DNA-bound transcription factor TEAD1-4
- Mutations in the Hippo pathway that result in activation of YAP/TAZ/TEADs are prevalent in multiple cancers (Lin et al., Nature Genetics 2015; McGowan et al., Genes Cancer 2017)
- YAP/TAZ/TEADs transcriptional activity can also be induced upon inhibition of oncogenic drivers, leading to the emergence of drug tolerant "persister" cells and disease relapse (Kurppa et al., Cancer Cell 2020)
- IK-930 is a TEAD1 selective palmitoylation inhibitor (see poster #1646) that effectively inhibits the transcriptional activity of YAP
- IK-930 combined with EGFRi or MEKi can prevent the emergence of persister cells and attenuate resistance to these targeted therapies
- IK-930 is currently in Phase 1 clinical development (NCT05228015)



IK-930 Enhances Anti-Tumor Activity of Osimertinib *in vitro* and *in vivo*

Figure 2: IK-930 enhances apoptosis induction *in vitro* and anti-tumor activity in vivo in combination with osimertinib



(a & b) A time course of apoptosis induction in PC9 or NCI-1975 cells upon IK-930, osimertinib and trametinib treatment as indicated.

(c & d) *in vivo* tumor growth inhibition activity of IK-930 and osimertinib, alone or in combination, in PC9 or NCI-H1975 xenografts.

Daniel Hidalgo, Marta Sanchez-Martin, Mihir Rajurkar, George Punkosdy, Jeffrey Ecsedy, Lan Xu Ikena Oncology, 645 Summer Street, Suite 101, Boston, MA, USA

Visit clinicaltrials.gov for IK-930-001



image acquisition every 12h) of NCI-H358 cells