

Targeted protein degradation in oncology and beyond



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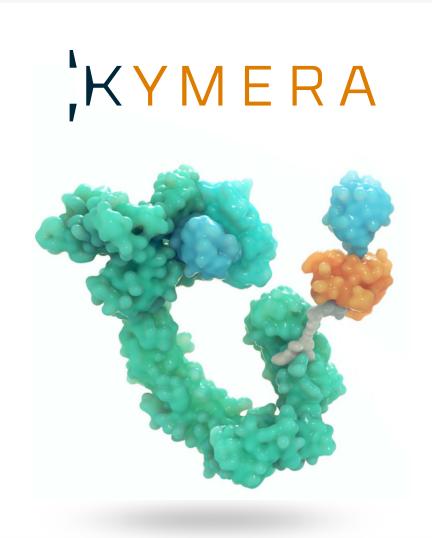
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Outline

- Kymera introduction, platform and pipeline
- IRAK4 Degradation in Immunology and Inflammation
- Summary

Kymera: A Leading Targeted Protein Degradation Company





- Premier protein degrader discovery platform
- Key partnerships:







- Initial focus in immuneinflammation and oncology
- Expect 3 INDs and clinical initiations by end of 2021
- Dosing HV, I/I and cancer patients with first proof-ofbiology in humans in 2021

Proprietary Pegasus[™] TPD Platform

Key capabilities



E3 Ligase Whole-Body Atlas

- Identification of the expression profiles of approximately 600 unique E3 ligases
- Match target protein with the appropriate E3 ligase based on expression, distribution, intracellular localization, and biology



E3 Ligase Binders Toolbox

• Toolbox of proprietary ligands leverages the E3 Ligase Whole-Body Atlas



Ternary Complex Modeling

• Ternary complex modeling tool **optimizes the development** of highly efficient and selective degrader therapeutics



Quantitative System Pharmacology Model

- Model measures and predicts the diverse sets of parameters that impact protein levels
- Based on understanding of PK/PD, both in vitro and in vivo, and across different tissues and cell types



Proprietary Chemistry

- Proprietary chemistry expertise enables the design and optimization of both E3 ligases and target protein binders
- Ability to convert them into degraders with optimal pharmaceutical properties tailored to specific patient populations and diseases

Pegasus E3 Ligase Whole-Body Atlas



E3 Ligase Whole-Body Atlas



E3 Ligase Binders Toolbox



Ternary Complex Modeling

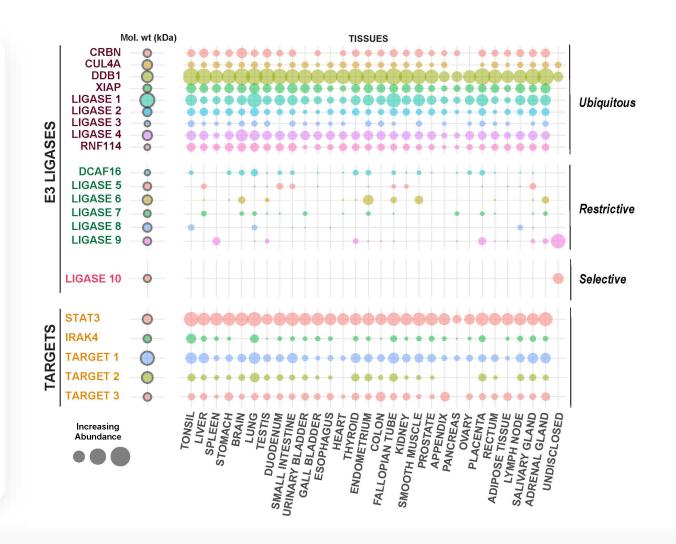


Quantitative System Pharmacology Model



Proprietary Chemistry

- Focused on determining the expression profiles of ~600 unique E3 ligases
- Patterns mapped in both disease and healthy contexts
- Ability to match a target protein with appropriate E3 ligase based on expression, and biology
- Vision to develop tissue selective or tissue restricted degraders to enable novel therapeutics opportunities







E3 Ligase Whole-Body Atlas



E3 Ligase Binders Toolbox



Ternary Complex Modeling



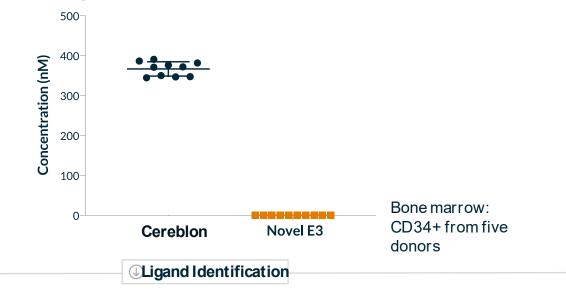
Quantitative System Pharmacology Model



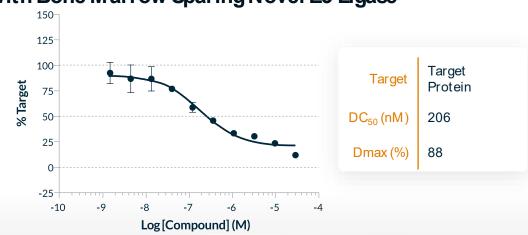
Proprietary Chemistry

- E3 Ligase Whole Body Atlas queried to identify a tissue sparing E3 ligase based on target protein unwanted pharmacology (i.e. bone marrow for a particular target of interest)
- A Bone marrow sparing E3 ligase identified
- Screening and optimization lead to a novel binder to a previously unliganded E3 ligase (E3 ligase binders toolbox)
- A novel degrader based on a bone marrow sparing E3 ligase demonstrated target degradation

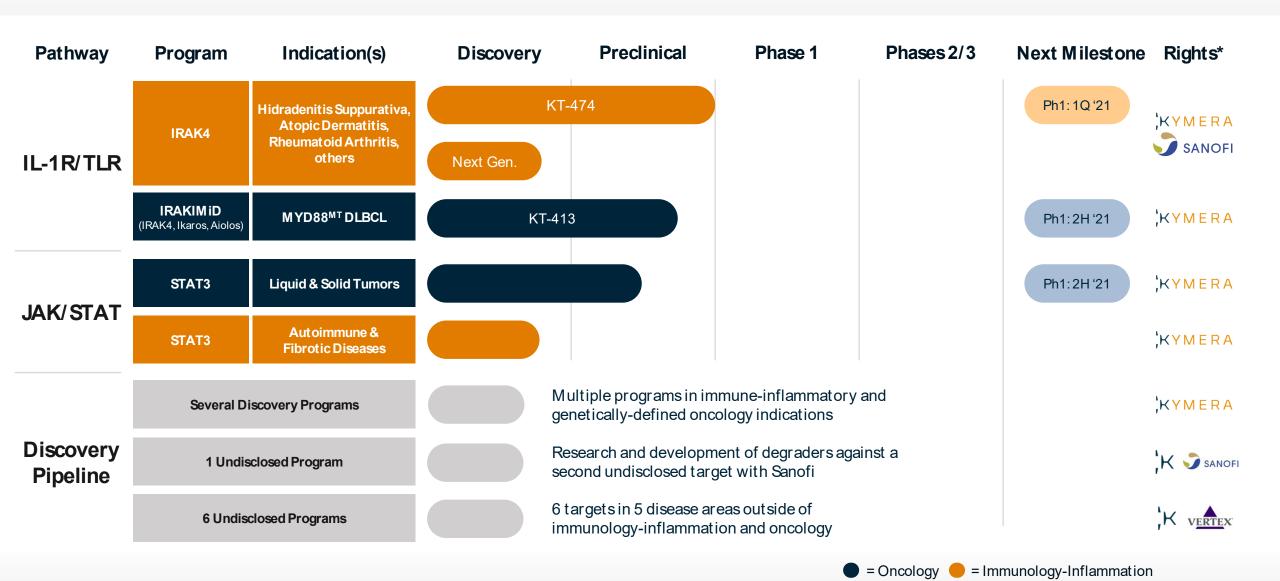
This E3 Ligase is Not Expressed in Bone Marrow



TPD with Bone Marrow Sparing Novel E3 Ligase



Kymera's Pipeline of Novel Protein Degraders







IRAK4 Biology and Degrader Rationale

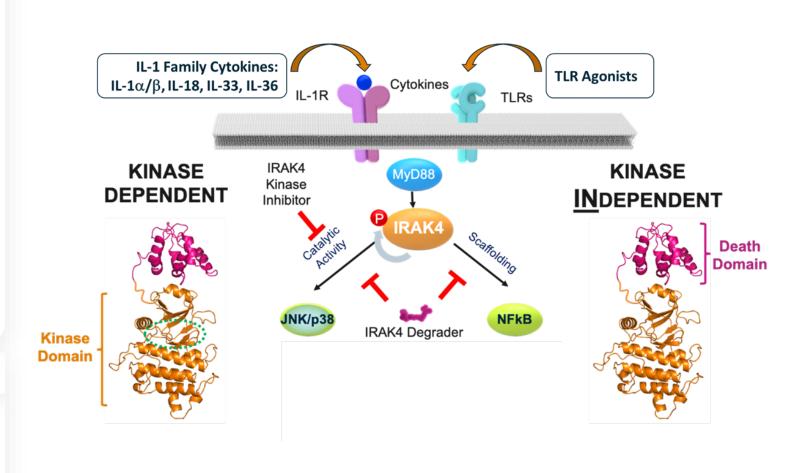
- IRAK4 is a key component of the myddosome protein complex
- Myddosome is involved in innate immunity that mediates signals through IL-1R and **TLRs**
- IL-1R/TLR signaling through the myddosome complex is dependent on IRAK4 kinase and scaffolding functions
- Believe degrading IRAK4 can provide a single or al small molecule solution to many diseases impacted by this pathway
- Sanofi collaboration on development of degraders targeting IRAK4 outside oncology and immuno-oncology

Indications/ Expected Timeline

HS, AD, RA

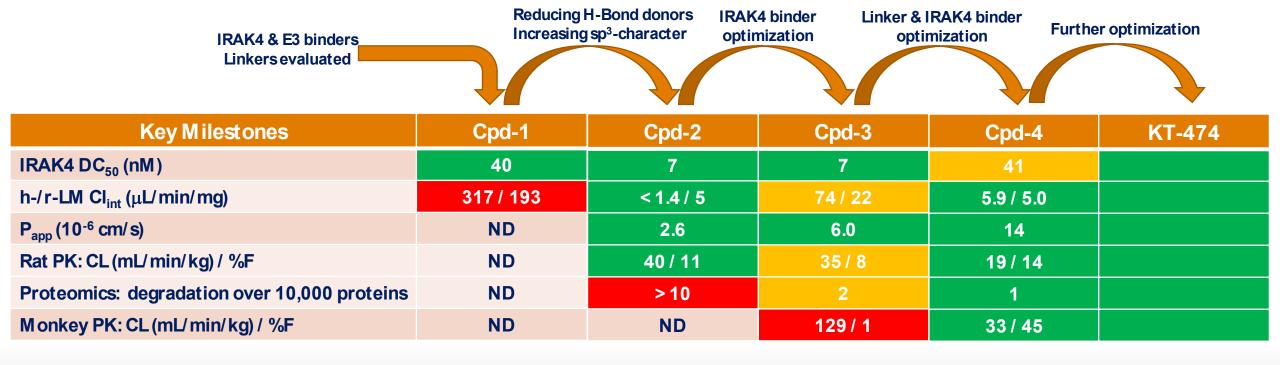
Phase 1 SAD initiation: 1Q 2021 Phase 1 MAD enrollment: 2H 2021*

Phase 1 proof-of-biology in healthy volunteers: 4Q 2021

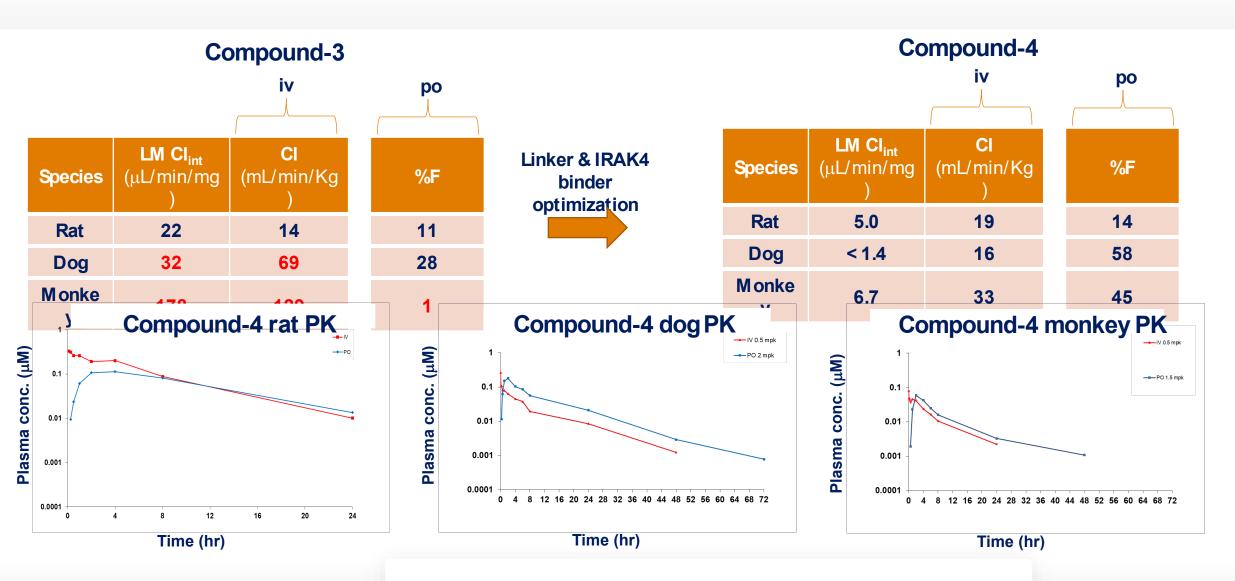


IRAK4: Road to development candidate KT-474



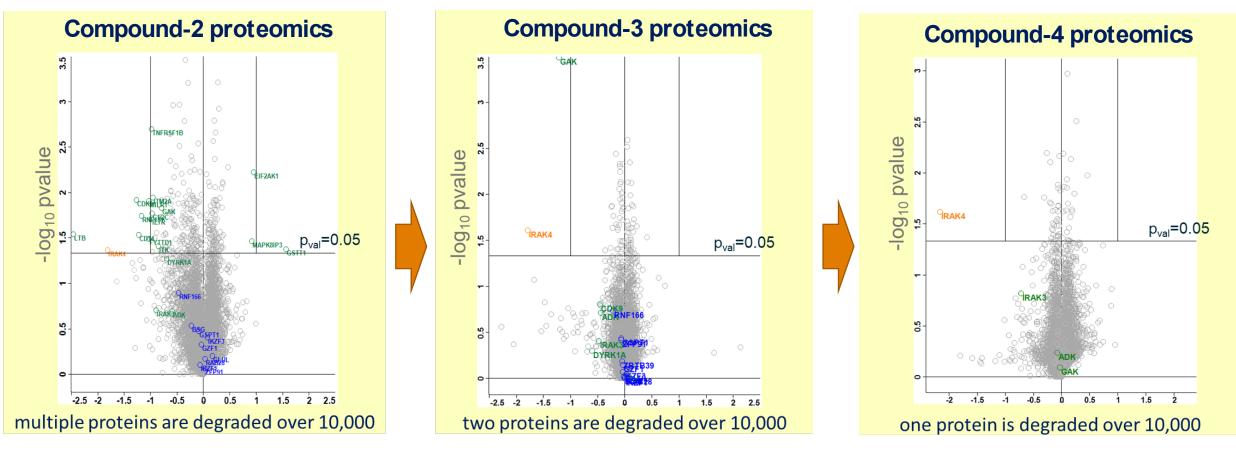


Oral exposure has been achieved across multiple species



Reducing clearance has increased oral bioavailability

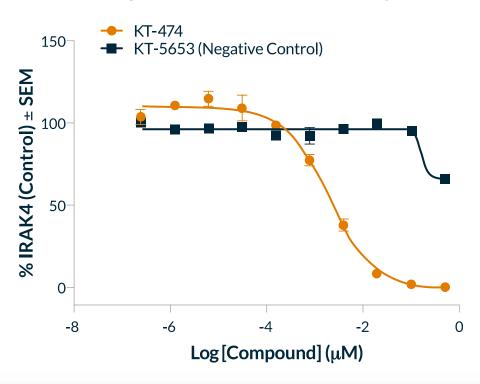
IRAK4 protein is selectively degraded over 10,000 proteins



- Proteomics in PBMC @10x DC₉₀
- IRAK4 binder and linker modification led to protein degradation selectivity improvement

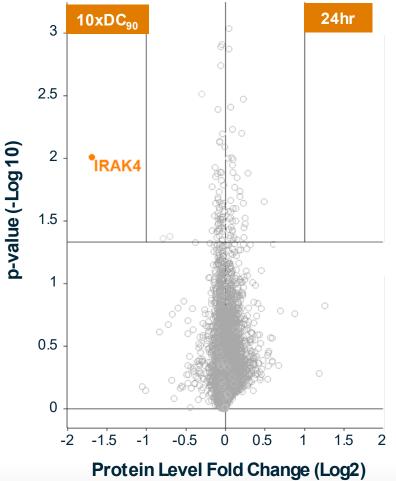
KT-474: Specific IRAK4 Degradation

Degradation in Human Monocytes



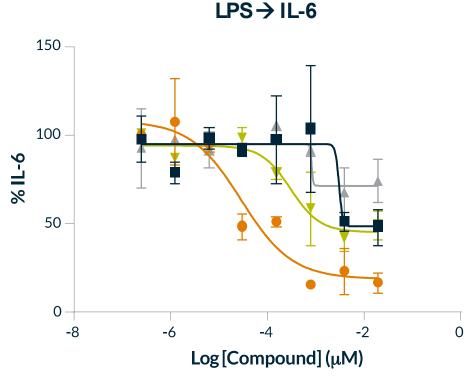
- Calculated DC₅₀ of 2.1 nM and E3 ligase dependent degradation of IRAK4 in human immune cells
- IRAK4 was only protein of over 10,000 to be degraded by KT-474 in human immune cells at concentration 10-fold above the DC₉₀

Selectivity in Human PBM C

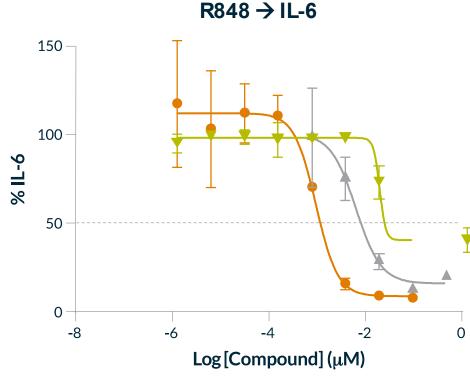


IRAK4 Degradation Superior to Kinase Inhibition in Cytokine Production

- Functional activity of KT-474 assessed by measuring proinflammatory cytokine levels upon activation
- Cells pre-treated with KT-474, a negative control, and two small molecule IRAK4 kinase inhibitors
- KT-474 better able to inhibit IL-6 under both LPS and R848 than clinically active IRAK4 SM kinase inhibitor PF-06550833



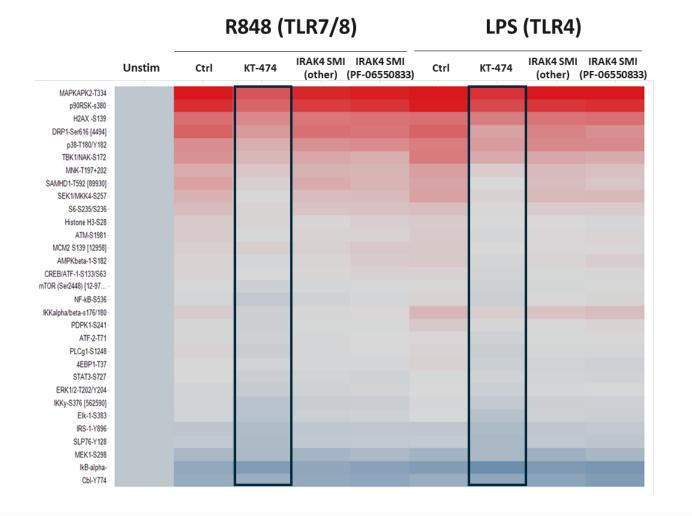
Legend	Compound	IL-6 IC ₅₀ (nM)
-	KT-474	3
-	Negative control	335
	IRAK4 SMI (PF- 06550833)	N/A
	IRAK4 SMI (other)	N/A



Legend	Compound	IL-6 IC ₅₀ (nM)
-	KT-474	0.7
—	IRAK4 SMI (PF- 06550833)	5
<u> </u>	IRAK4 SMI (other)	49
	(606.)	

IRAK4 Degradation Superior to Kinase Inhibition in Intracellular Signaling

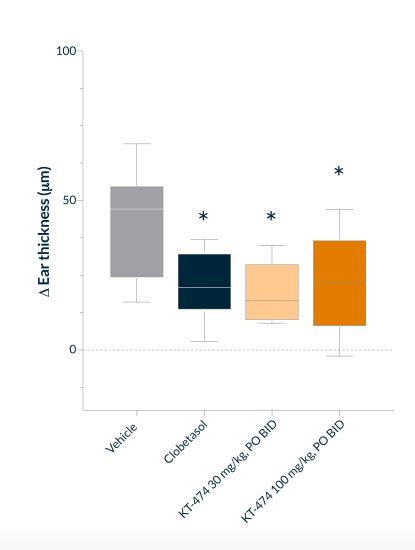
- Phosphorylation events upon TLR activations monitored using flow cytometry
- KT-474 inhibited proinflammatory phosphorylation events in a superior manner to small-molecule inhibitors including clinically active PFcompound

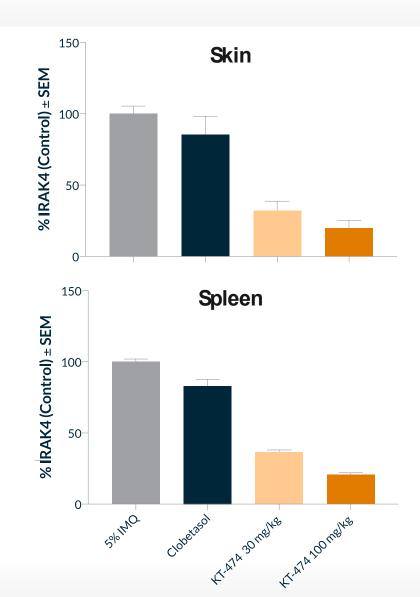


IRAK4 Degradation In Vivo Active in Preclinical Mouse Psoriasis Model

IL-1R/TLR driven

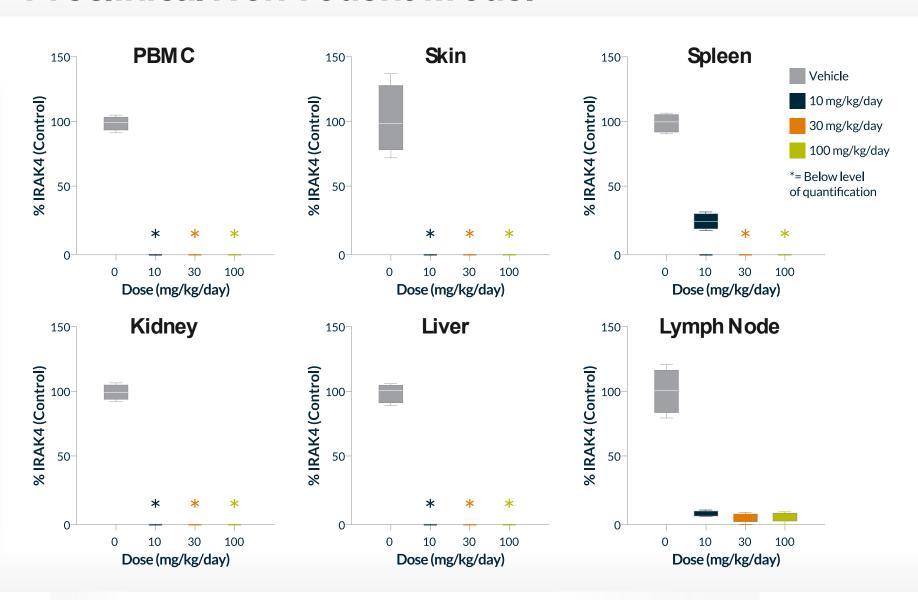
- Ability to inhibit topical skin thickening induced by imiquimod was measured in a mouse model of psoriasis
- Orally dosed KT-474 inhibited thickening, a reflection of local and systemic inflammation, comparable to a topic corticosteroid after 2 or 4 days of dosing
- Inhibition shown at doses achieving at least 60-70% IRAK4 knockdown in skin and spleen





KT-474: Close to Complete IRAK4 Degradation and Well Tolerated in Preclinical Non-rodent Model

- Orally-administered KT-474 evaluated in a 14-day non-GLP tox and PKPD study in rodent and nonrodents (shown).
- Almost complete knockdown demonstrated across multiple tissues at multiple doses
- Compound well-tolerated at all doses up to 600 mg/kg for rodents and 100 mg/kg for nonrodents



Hidradenitis Suppurtiva (HS) and interim results from Non-interventional study in HS

HS is a painful, chronic, suppurative process involving the skin and subcutaneous tissue



- Onset in 2nd & 3rd decades, more common in females
- Primarily occurs on intertriginous skin
- Recurrent, painful & inflamed nodules, leading to rupture, inflammatory plaques, and scarring
- Severity measures: Hurley clinical staging system (I-III),
 inflammatory lesion (nodules and abscesses) count

Epidemiology

• Prevalence of 0.1-2%; ~325K in US, ~25% with moderate-to-severe disease

IRAK4 Levels Following Treatment with IRAK4 Degrader or Kinase Inhibitor

Incidence in US: 11.4/100,000

CD4+

Treatment

B Cells

Adalimumab (anti-TNF-a) approved in 2015 for moderate-to-severe disease; ~50% respond, but only 20-30% with durable responses

DN T Cells

• Other treatments : antibiotics, steroids and surgery

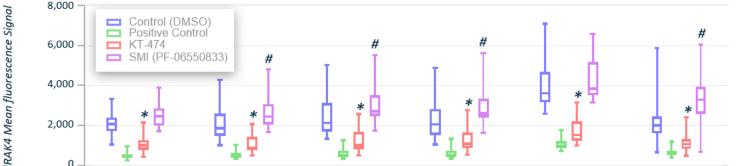
IRAK4 degrader downregulates IRAK4 expression across all PBM C subsets in HS patient blood

Patient blood was treated with DMSO control or 200nM of KT-474 IRAK4 degrader or 200nM of IRAK4 kinase inhibitor (PF-06550833)

Blood was incubated overnight at 37°C (16-24 hr) and shipped and processed for IRAK4 lineage specific cell surface staining by flow

Treatment with an IRAK4 degrader led to reduction of IRAK4 to a similar level approaching lower limits of detection as determined by an anti-IRAK4 blocking antibody across all PBM C subsets in HS patient blood, irrespective of baseline IRAK expression intensity

Treatment with an IRAK4 kinase inhibitor led to an increase in IRAK4 levels up to 2.6 fold in T and NK cells



N=30 patients, One-way ANOVA* KT-474 vs DMSO Control p≤0.0001, #SMI (PF-06550833) vs DMSO Control p≤0.02

Positive Control: cellstreated with IRAK4 blocking antibody prior to IRAK4 staining

CD8+

NK Cells

Monocytes

IRAK4 Summary

- Kymera has generated deep know-how to develop protein degraders (e.g. compound optimization for potency and oral bioavailability, in vivo PK/PD)
- IRAK4 is a well validated pathway involved in multiple IL-1R/TLR-driven immune-inflammatory diseases
- IRAK4 degradation is superior to inhibition
- Ex vivo incubation of HS blood with the IRAK4 degrader KT-474 reduces IRAK4 across all PBMC subsets
- Pre-clinical data and findings from non-interventional study support the clinical development KT-474 in HS (Phase I SAD: 1Q 2021; MAD enrollment: 2H 2021*)



THANK YOU

