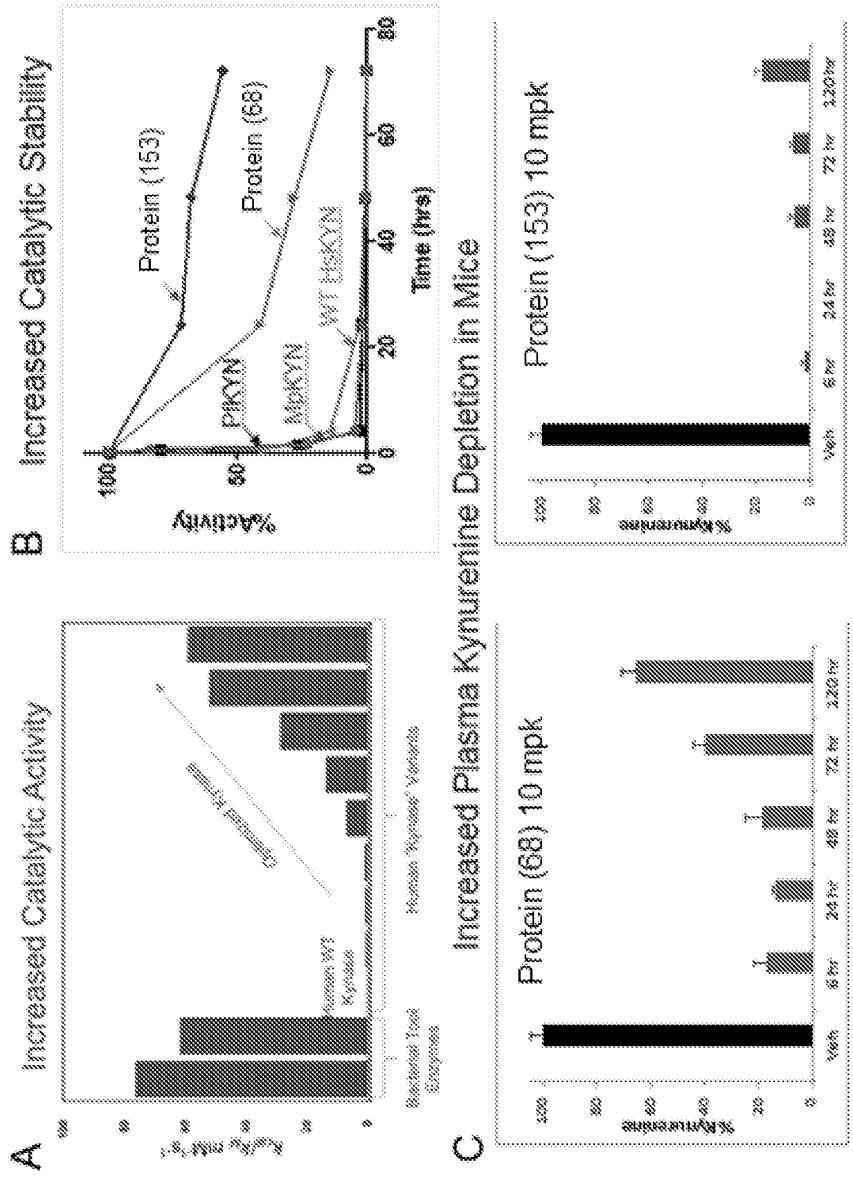
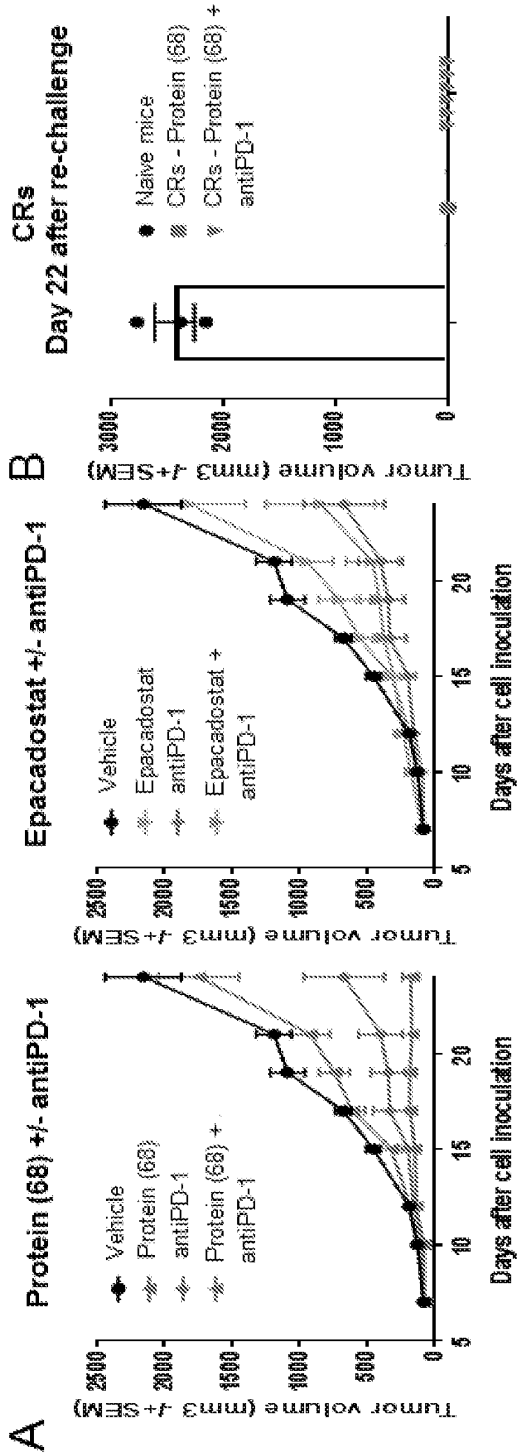
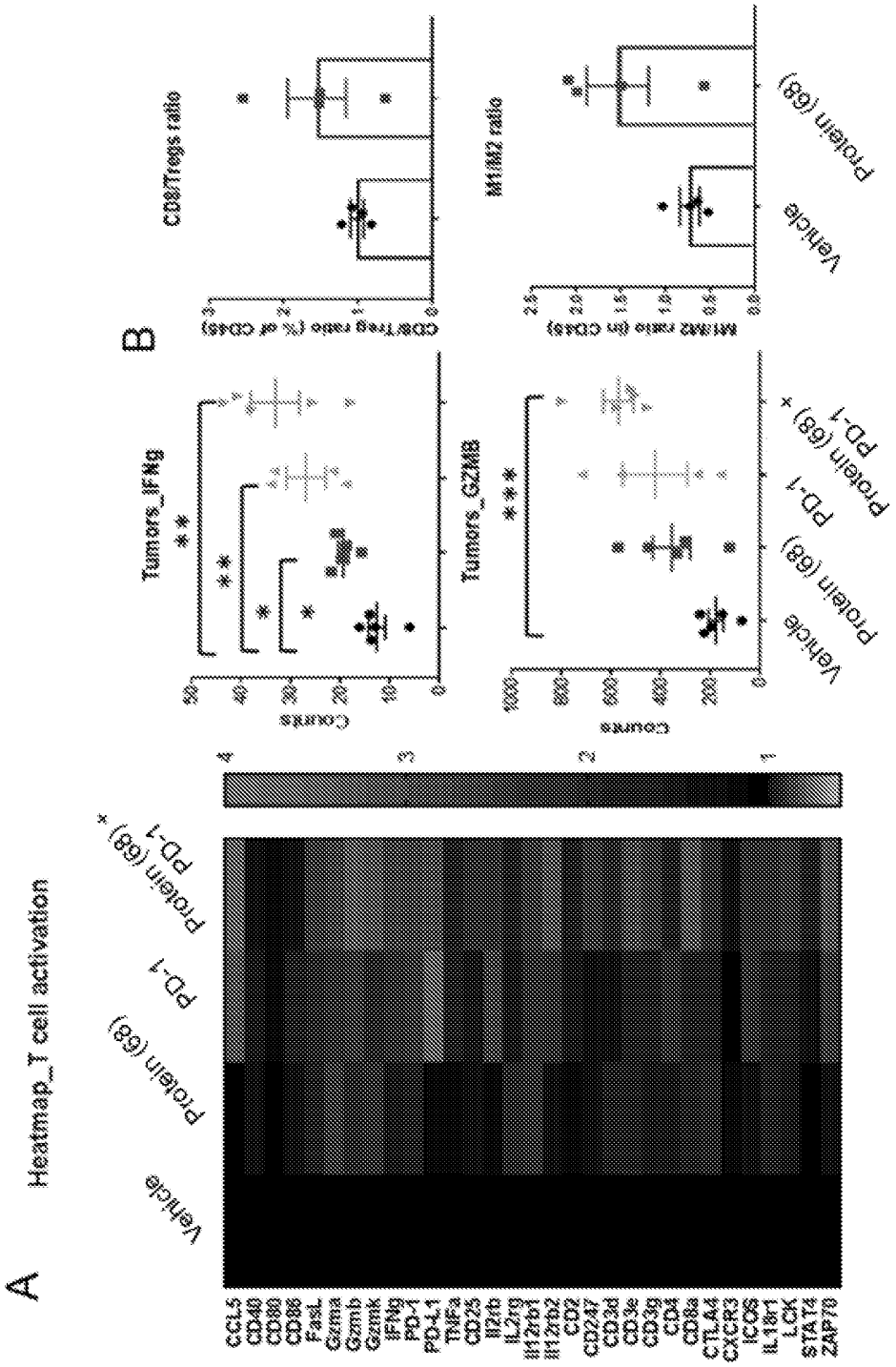

A
Increased Catalytic Activity
Human WT Kynase
Bacterial Toxin Enzyme
Human Kynase Variants
B
Increased Catalytic Stability
Protein (153)
Protein (68)
PtKYN
MpKYN
WT HsKYN
%Activity
Time (hrs)
C
Increased Plasma Kynurenine Depletion in Mice
Protein (68) 10 mpk
Protein (153) 10 mpk
% Kynurenine
Veh
6 hr
24 hr
48 hr
72 hr
120 hr

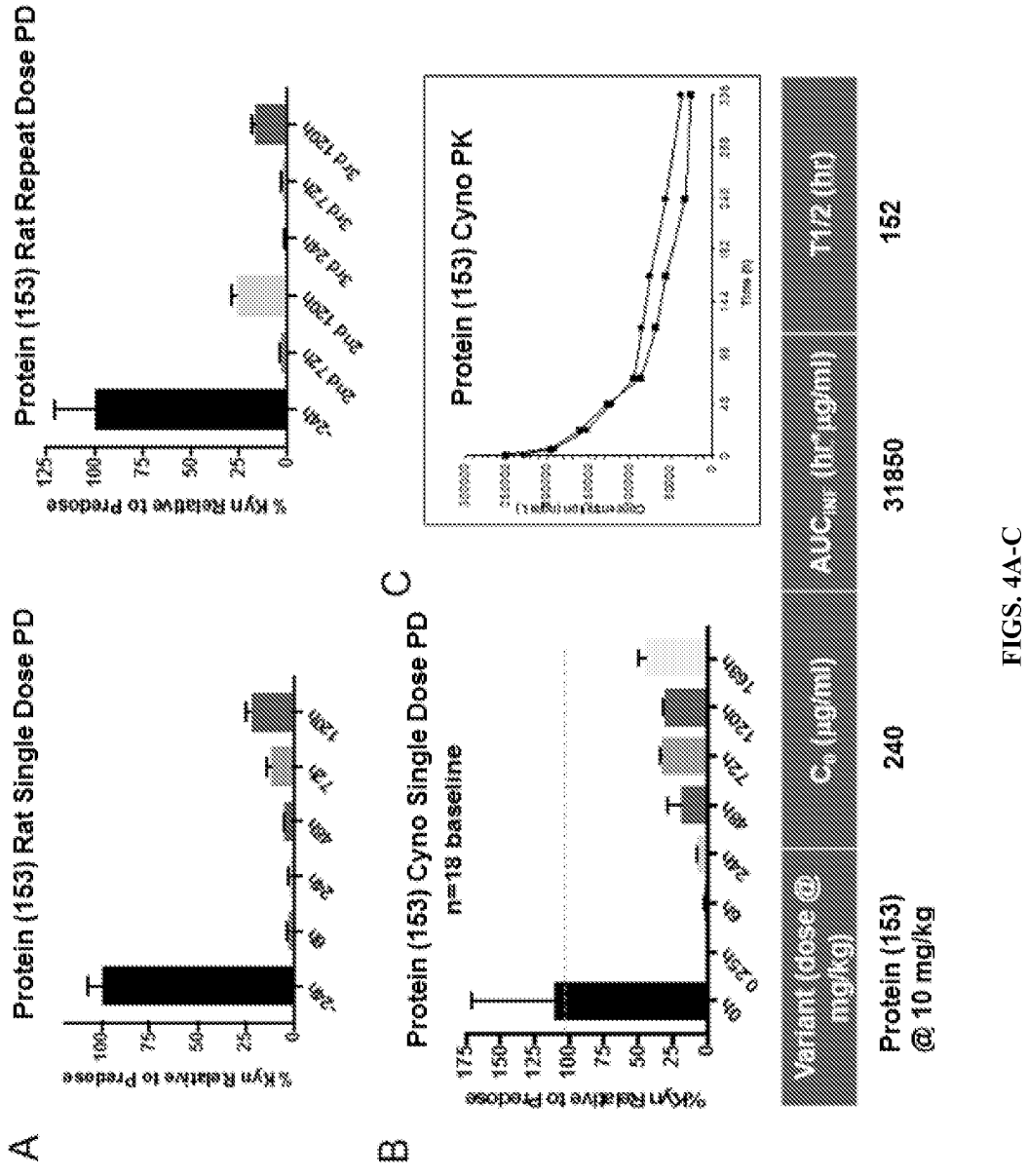
FIGS. 1A-C


A
Protein (68) +/- antiPD-1
Vehicle
Protein (68)
antiPD-1
Protein (68) + antiPD-1
Tumor volume (mm3 +/+SEM)
Days after cell inoculation
B
Epacadostat +/- antiPD-1
Vehicle
Epacadostat
antiPD-1
Epacadostat + antiPD-1
Tumor volume (mm3 +/+SEM)
Days after cell inoculation
CRs
Day 22 after re-challenge
Naive mice
CRs - Protein (68)
CRs - Protein (68) + antiPD-1
Tumor volume (mm3 +/+SEM)

FIGS. 2A-B


A
Heatmap_T cell activation
Vehicle
Protein (6B)
PD-1
Protein (6B) + PD-1
CCL5
CD40
CD80
CD86
FasL
Gzma
Gzmb
Gzmk
IFNg
PD-1
TNFa
CD25
Il2rb
IL2rg
Il12rb1
Il12rb2
CD2
CD247
CD3d
CD3e
CD3g
CD4
CD8a
CTLA4
CXCR3
ICOS
IL18r1
LCK
STAT4
ZAP70
B
Tumors_IFNg
Counts
Tumors_GZMB
Counts
CD8/Tregs ratio
CD8Treg ratio (% of CD45)
M1/M2 ratio
M1M2 ratio (in CD45)

FIGS. 3A-B


A
Protein (153) Rat Single Dose PD
% Kyn Relative to Predose
B
Protein (153) Cyno Single Dose PD
n=18 baseline
%Kyn Relative to Predose
C
Protein (153) Cyno PK
Variant (dose @ mg/kg)
Cmax (ng/ml)
AUCinf (hr*ng/ml)
T1/2 (hr)
Protein (153) @ 10 mg/kg
240
31850
152

FIGS. 4A-C