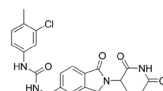


CC-92480

CRBN-based selective IKZF1/3 degrader
 Oral efficacy in lenalidomide-resist. xenograft
 From phenotypic screen and optimization
 J. Med. Chem., Mar. 4, 2020
 Celgene, San Diego, CA

Activity in lenalidomide-resistant cells. In vivo toxicity.



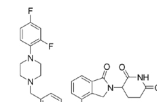
Aiolos EC₅₀: 59 nM
 GSPT1 EC₅₀: 1 nM

Screen of CRBN mod. library for activity in lenalidomide-resist. cell line.



Counterscreen against toxicity to PBMCs

Rapid degradation kinetics. Activity on off-target receptors.



Aiolos EC₅₀: 0.1 nM
 GSPT1 EC₅₀: >10000 nM

Reduced off-target binding

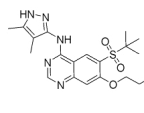


Ph. 1 in RR-multiple myeloma

"PROTAC 6"

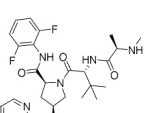
IAP-based selective RIPK2 degrader
 Prolonged PD w/ 0.15 mpk SC Q3D dosing
 E3 binder switch and property-based opt.
 Commun. Biol., Mar. 20, 2020
 GlaxoSmithKline, Stevenage, UK / PMCC

RIPK2 binder



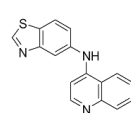
RIPK2 DC₅₀: 0.4 nM
 hWB EC₅₀: 3.2 nM
 Rat T_{1/2} = 16 h

IAP binder



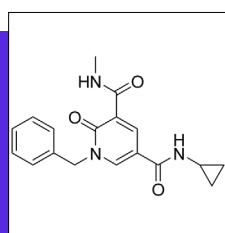
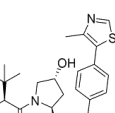
LogD = 3.6
 Sol. = 346 µM

RIPK2 binder



RIPK2 DC₅₀: 2 nM

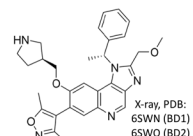
VHL binder



GSK620

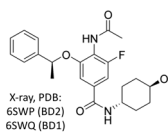
BD2 domain selective BET inhibitor
 Oral efficacy in 3 inflammation models
 From SBDD of a BD2-selective HTS hit
 Science, Mar. 19, 2020
 GlaxoSmithKline, Stevenage, UK

BD1-selective tool (GSK778)



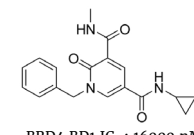
BRD4 BD1 IC₅₀: 40 nM
 BRD4 BD2 IC₅₀: 6300 nM

BD2-selective tool (GSK046)

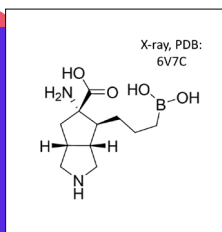


BRD4 BD1 IC₅₀: >50000 nM
 BRD4 BD2 IC₅₀: 50 nM

Oral efficacy in arthritis, psoriasis, liver fibrosis models

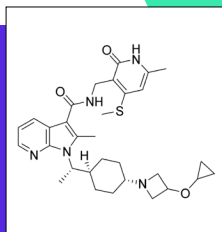


BRD4 BD1 IC₅₀: 16000 nM
 BRD4 BD2 IC₅₀: 79 nM



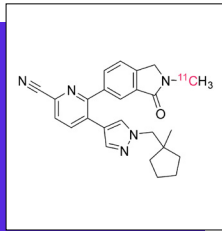
"Compound 3"

Human arginase 1 inhibitor
 %F > 20 in higher species, oral mouse PD
 From SBDD of literature starting point
 ACS Med. Chem. Lett., Mar. 23, 2020
 Merck, Boston, MA



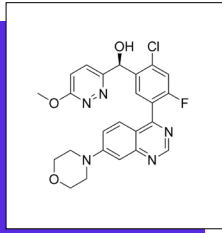
"Compound 21"

Long-residence time EZH2 inhibitor
 Oral efficacy in xenograft model
 From optimization of prior EZH2 inhibitor
 ACS Med. Chem. Lett., Mar. 26, 2020
 Constellation Pharma., Cambridge, MA



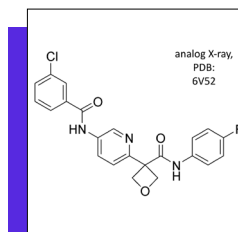
[¹¹C]MK-6884

M4 positive allosteric modulator PET tracer
 Good uptake and brain signal, BP_{ND} = 0.83
 From optimization of prior M4 PAM
 J. Med. Chem., Mar. 12, 2020
 Merck, West Point, PA



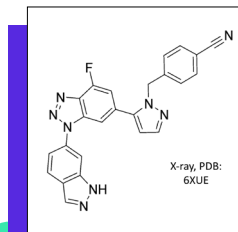
M3814

DNA-PK-selective kinase inhibitor
 Oral efficacy in xenograft radiation models
 Undisclosed screening and optimization
 Mol. Cancer Ther., Mar. 27, 2020
 Merck KGaA, Darmstadt, DE



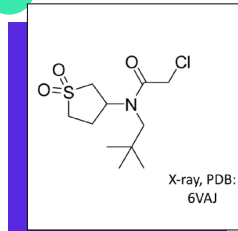
"Compound 13"

Heme-displacing IDO1 inhibitor
 Human predicted QD dose of 26 mg
 From 260k MS-based screen and SBDD
 ACS Med. Chem. Lett. Mar. 10, 2020
 Merck, Boston, MA



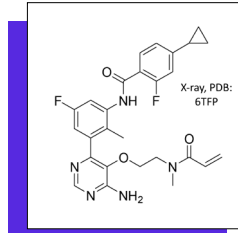
"Compound 74"

Non-nucleoside CD73 inhibitor
 HCD73 cell potency of 19 nM
 Cell-based HTS of >200k compounds and opt.
 J. Med. Chem., Mar. 26, 2020
 Arcus Biosciences, Hayward, CA



Sulfopin

Selective covalent Pin1 inhibitor
 Oral efficacy in xenograft model
 From covalent fragment screen and opt.
 bioRxiv, Mar. 21, 2020
 Weizmann Institute / Harvard Medical



Remibrutinib (LOU064)

BTK-selective covalent kinase inhibitor
 Ph. I completed in HV, in Ph. II
 SBDD from reversible BTK inhibitor and opt.
 J. Med. Chem., Mar. 4, 2020
 Novartis, Basel, CH