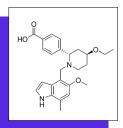
Small Molecules of the Month

February 2020 drughunter.com



LNP₀₂₃

Selective factor B serine protease inhibitor Orally available, retinal barrier penetrant From 250k compound HTS and SBDD lead op. J. Med. Chem., Feb. 19, 2020 Novartis (NIBR), Cambridge, MA

Hit-Finding: "Full deck" HTS of 1.1M compounds in ELISA assav.

Targeted HTS of 250k compounds in CVF-Bb inhib. assay.

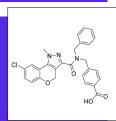
Fragment-based screen (NMR, X-ray).



Factor B SPR K,: 7.9 nM hERG, Q1a, Q2c IC_{so}: >30 μM >30 µM vs. 41 other proteases completed Ph. 1 in HV

FXR Cell EC₅₀: 32 nM

completed Ph. 1 in HV



LMB763 (nidufexor)

Selective FXR partial agonist Orally efficacious in NASH models From two 3M compound HTS and LBD J. Med. Chem., Jan. 15, 2020 Novartis (GNF), San Diego, CA

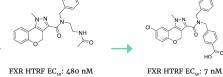
Hit-Finding: "Full deck" HTS of ~3M compounds in FXR/SRC1 HTRF biochemical assay. "Full deck" HTS of

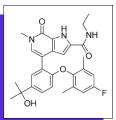
Q1a IC₅₀: 0.3 μM

α2c IC₅₀: 0.18 μΜ

>30 µM vs. 17 other proteases

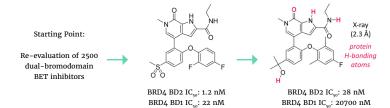
~3M compounds in FXR BSEP-luc reporter FXR Cell EC₅₀: 690 nM cellular assay. Overlapping HTS hit

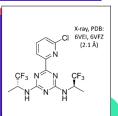




ABBV-744

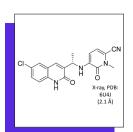
BD2 domain selective BET inhibitor Orally efficacious in XG w/o platelet, GI tox From SBDD of BD1/2 dual inhibitors Nature, 2020, 578, 306-310 AbbVie, North Chicago, IL





AG-881 (vorasidenib)

Allosteric mutant IDH1/2 dual inhibitor Oral, brain penetrant, completed Ph. I in HV From SBDD of prior mIDH inhibitor ACS Med. Chem. Lett., 2020, 11, 101-107 Agios Pharmaceuticals, Cambridge, MA



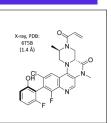
FT-2102 (olutasidenib)

Allosteric mutant-selective IDH1 inhibitor Oral, in clinical development From SBDD of prior mIDH inhibitor J. Med. Chem. 2020, 63, 1612-1623 FORMA Therapeutics, Watertown, MA



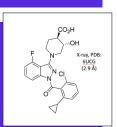
GS-9876 (lanraplenib)

SYK-selective kinase inhibitor Oral, completed Ph. I in HV From optimization of prior candidate ACS Med. Chem. Lett. Feb. 12, 2020 Gilead Sciences, Seattle, WA



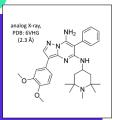
"Compound 25"

Mutant KRASG12C allosteric covalent inhibitor Orally efficacious in XG model From optimization of literature starting point J. Med. Chem. Feb. 5, 2020 AstraZeneca, Cambridge, UK



"Compound 25"

RORyt allosteric inhibitor Orally bioavailable in higher species From HTS and ligand-based design ACS Med. Chem. Lett. 11, 114-119 Merck, Boston, MA



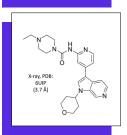
WF-47-JS03

RET kinase inhibitor Orally efficacious in XG but narrow TI From data mining of internal matter and opt. ACS Med. Chem. Lett. Feb. 12, 2020 Novartis (GNF), San Diego, CA



BMS-986260

Selective TGFβR1 kinase inhibitor Completed oral CV studies in higher species From data mining of internal matter and opt. ACS Med. Chem. Lett. 11, 172-178 Bristol-Myers Squibb, Princeton, NJ



GNF2133

GSK3β-sparing DYRK1A kinase inhibitor Orally efficacious in proliferation model, but non-specific proliferation observed from cellular phenotypic screen and opt. J. Med. Chem. Feb. 20, 2020 Novartis (GNF), San Diego, CA

