



Fig. 1 Top, X-ray structure of EphA2 in complex with UCR agent.. Bottom, Treatment with ephrinA1-Fc or UCR agent 135H12 on an orthotopic mouse model of prostate cancer with PC-3-GFP cells (n = 5 mice per treatment group). The mean fluorecence intensity related to metastases detected at day 7 from mice in each group, control (the solvent formulation used for 135H12), ephrinA1-Fc treated, 135H12 treated. Error bars represent standard deviation. ** p < 0.01.

APPLICATION

Peptidomimetic agonists may be developed as cancer therapeutics, as targeted delivery agents for chemotherapy, or as diagnostics

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	11,739,121	08/29/2023	2018-541
Patent Cooperation Treaty	Published Application	2019/237075	07/02/2020	2018-541

RELATED MATERIALS

► Salem AF et al., Prostate Cancer Metastases Are Strongly Inhibited by Agonistic EphA2 Ligands in an Orthotopic Mouse Model. *Cancers* (Basel). 2020 Oct 2;12(10):E2854. doi: 10.3390/cancers12102854. PMID: 33023262. - 10/02/2020

► Salem AF et al., Therapeutic Targeting of Pancreatic Cancer via EphA2 Dimeric Agonistic Agents *Pharmaceuticals* 2020, 13(5), 90; <https://doi.org/10.3390/ph13050090> - 05/10/2020

► Gambini L. et al., Structure-Based Design of Novel EphA2 Agonistic Agents with Nanomolar Affinity in Vitro and in Cell. *ACS Chemical Biology* 2018 13 (9), 2633-2644 DOI: 10.1021/acschembio.8b00556 - 08/15/2018

► Salem AF et al., Reduction of Circulating Cancer Cells and Metastases in Breast-Cancer Models by a Potent EphA2-Agonistic Peptide–Drug Conjugate. *Journal of Medicinal Chemistry* 2018 61 (5), 2052-2061 DOI: 10.1021/acs.jmedchem.7b01837 - 02/22/2018

