



Targeted immune activation with SIRPα antibody — TLR9 agonist conjugate (SIRPα TRAAC)

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ALX Oncology and Tallac Therapeutics 50/50 joint collaboration on novel SIRPα antibody – TLR9 agonist conjugate (SIRPα TRAAC)

ALX [©]NCOLOGY • CD47-SIPR α is a dominant myeloid checkpoint mechanism where SIRP α is expressed on myeloid and dendritic cells as well as on a range of tumor cells.

Provides SIRPα antibody • SIRP α expression on tumor cells enables tumor microenvironment localization of SIRP α TRAAC.

TALLAC

Provides TRAAC platform and TLR9 agonist Synthetic CpG oligonucleotides (CpG ODNs) are potent TLR9 agonists that stimulate antitumoral cytokine production and immune activation.

• Toll-like receptor 9 (TLR9) is a key receptor in the innate immune response.

• Novel Toll-like receptor agonist antibody conjugation platform (TRAAC) enables systemic delivery of targeted TLR9 activation.

SIRPα TRAAC induces targeted immune activation, bridging innate and adaptive immune responses.

SIRPα TRAAC simultaneously overrides "don't eat me" signals by blocking CD47-SIRPα myeloid checkpoint pathway and induces TLR9-based immune activation in antigen presenting cells (APCs).



Harnessing the power of innate and adaptive immune responses to cancer



- Successful immune-mediated elimination of cancer requires coordination between the innate and adaptive arms of the immune system.
- Innate immune cells (macrophages, myeloid cells and dendritic cells) may utilize a variety of signaling pathways, including TLR9, TLR7 or 8, STING and CD40, to trigger proinflammatory programs and engage the adaptive immune system.

DAMPs: damage-associated molecular patterns PAMPs: pathogen-associated molecular patterns PRRs: pattern recognition receptors



Toll-like Receptor 9 (TLR9): a key innate pathway

Proof-of-concept data in melanoma patients with intratumoral TLR9 agonists



Intratumoral programs have demonstrated clinical activity



CMP-001 (Checkmate) + Pembrolizumab in Anti-PD-1 Refractory Melanoma, ¹⁻⁴Checkmate, S1 2020.

Additional clinical data from SD-101 (Dynavax), IMO-2125 (Idera) and AST-008 (Exicure) further validate TLR9 agonism in cancer.





Tallac TRAAC platform: systemic, targeted immune activation Antibody directs TLR9 agonist (T-CpG) to specific immune cells

TLR9 Agonist Antibody Conjugate (TRAAC): Systemic dosing with cell specific TLR9 activation



Targeted-CpG (T-CpG) designed specifically for compatibility with antibody conjugation, superior PK, receptor-mediated uptake and TLR9 stimulation

Site specific conjugation

Unique TLR9 agonist



TLR9 Agonist Antibody Conjugate (TRAAC) enables versatile targeting of immune cells that matter





SIRP α is expressed on myeloid and dendritic cells as well as tumor cells



- SIRPα TRAAC binding to myeloid cells targets TLR9 activation in myeloid cells that matter (e.g. dendritic cells).
- SIRPα expression on tumor cells enables tumor microenvironment localization of SIRPα TRAAC.
- SIRPα TRAAC blocks CD47-SIRPα myeloid checkpoint pathway.



SIRPa TRAAC program is complementary to ALX148

ALX148 is an antagonistic molecule designed to maximize the activity of a wide array of anti-cancer agents by blockade of the CD47 myeloid checkpoint.

Removal of the CD47 inhibitory signal requires constant, full blockade of the pathway.





SIRP α TRAAC is an agonistic molecule that directly activates dendritic cells and initiates a coordinated innate and adaptive immune response against cancer.

In the case of agonistic molecules (TLR9 agonist), constant blockade is not required.



ALX Oncology's SIRP α antibodies: high affinity and diverse epitopes



ALX's diverse range of SIRP α antibodies

Diversity allows selection of best-in-class SIRP α antibodies:

- Binds human SIRPα variants V1 and V2
- Cross reacts with rodent, monkey and human $\text{SIRP}\alpha$
- Wide range of affinities
- Full coverage of SIRPα domain 1 surface allows selection for optimal epitope



SIRP α TRAAC induces potent and selective immune activation and leads to potent single agent activity in tumor models



ALX • N C O L O G Y

Harrabi et al., SITC, 2020

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Systemic administration of SIRPα TRAAC generates durable anti-tumor response and immunological memory



- Established MC38 tumors were eradicated following 10 mg/kg 2q3d systemic treatment with SIRPα TRAAC.
- These tumor free mice were then rechallenged 60-70 days post tumor clearance.
- SIRPα TRAAC treatment group demonstrated immune protection from the tumor re-challenge.
- Naïve age-matched mice were used as control for tumor growth.



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Harrabi et al., SITC, 2020

SIRP α TRAAC: targeting immune activation to where it matters



IND expected end of 2022

and TLR9 agonist

ALX anti-SIRPα antibody

- SIRPα TRAAC binding to myeloid cells targets TLR9 activation in key myeloid cells (e.g. dendritic cells).
- SIRPα expression on tumor cells enables localization of SIRPα TRAAC to tumor microenvironment.
- SIRPα TRAAC blocks CD47-SIRPα myeloid checkpoint pathway.
- Antibody-like PK profile allows for convenient dosing.
- Antibody conjugate produced through established manufacturing processes.



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