# SAFFRON-301: A Phase 3 Study of Tislelizumab With Sitravatinib Versus Chemotherapy in Patients With Locally Advanced or Metastatic Non-Small Cell Lung Cancer Previously Treated With Platinum-Based Chemotherapy and an Anti-PD-1/PD-L1 Antibody

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This is an open-label, randomized, multicenter, phase 3 clinical study evaluating the efficacy and safety of tislelizumab in combination with sitravatinib compared with docetaxel in patients with locally advanced or metastatic NSCLC who have disease progression following treatment with platinum-based chemotherapy and an anti-PD-1/PD-L1 antibody.



# **Background**

Lung cancer carries a poor prognosis and is the leading cause of cancer death worldwide. Despite the advent of immuno-oncology, there is an unmet need for new therapies.2

Most patients with advanced non-small cell lung cancer (NSCLC) do not respond to programmed cell death protein 1 (PD-1)/programmed death-ligand 1 (PD-L1) inhibitor monotherapy.<sup>3</sup> Of the patients who do respond, most develop resistance over time with disease progression usually occurring within 2-17 months of treatment initiation.<sup>3</sup>

More effective treatment options capable of combating resistance and increasing the duration of response are needed.

### Introduction to Tislelizumab and Sitravatinib



## Tislelizumab

Tislelizumab is a monoclonal antibody with high binding affinity to the PD-1 receptor, which was engineered to minimize binding to FcV receptors on macrophages.<sup>4,5</sup>

In two phase 3 trials, the addition of tislelizumab to chemotherapy led to increased progression-free survival (PFS) and longer duration of response (DoR) compared with chemotherapy alone in patients with advanced NSCLC.2,6



Sitravatinib is an oral spectrum-selective tyrosine kinase inhibitor targeting TAM family receptors (TYRO3, AXL, MER) and split tyrosine-kinase domain containing receptors (VEGFR2/KIT), which may help to reduce the number of myeloid-derived suppressor cells and regulatory T cells and increase the ratio of M1/M2 polarized macrophages, promoting an antitumor immune microenvironment.7-9

### Rationale for Combination of Tislelizumab and Sitravatinib

Combining an immunotherapeutic PD-1 checkpoint inhibitor with a receptor tyrosine kinase inhibitor that has both immunomodulatory and antitumor properties could potentially produce a synergistic effect and enhance the antitumor activity observed with either agent alone 10,11

# Methods

- Inclusion criteria: Age ≥18 years
- · Unresectable locally advanced or metastatic histologically confirmed **NSCLC**
- No known EGFR or BRAF sensitizing mutation, or ALK or ROS1 rearrangement
- Prior treatment must include platinum-based chemotherapy and an anti-PD-1/PD-L1 antibody
- ≤2 lines of prior systemic therapy for advanced/metastatic disease
- ≥1 measurable lesion (RECIST v1.1) ECOG PS ≤1

## **Assessments**

## Histological subtype (squamous vs nonsquamous)

- PD-L1 expression (<1% TCa vs ≥1% TC)
- Race (Asian vs non-Asian)

# Figure 1. Study Design (NCT04921358)



# Withdrawal

- Disease
- progression Intolerable

Continue until:

toxicity Death

# Stratification factors

- Tumor imaging (CT or MRI) will be performed within 28 days before randomization and while on study, ~every 6 weeks (± 7 days) from Day 1 of Cycle 1 in the first 12 months and ~every 9 weeks (± 7 days) thereafter. Tumor assessment will be based on RECIST v1.1
- · Patients will be evaluated for AEs, serious AEs, and immune-mediated AEs
  - Safety follow-up will occur until 30 days after the last dose of the study drug (90 days after the last dose of tislelizumab for immune-mediated AEs)
- · Patients are enrolling in Australia and China with plans to enroll in the US and Europe

Patients with unevaluable PD-L1 expression in tissues will be included in the <1% TC group. Abbreviations: AE, adverse event; ALK, anaplastic lymphoma kinase BRAF, B-Raf proto-oncogene serine/threonine kinase; CT, computed tomography; ECOG PS, Eastern Cooperative Oncology Group performance status; EGFR; epidermal growth factor receptor; IV, intravenous; MRI, magnetic resonance imaging; NSCLC, non-small cell lung cancer; PD-1, programmed cell death protein 1; PD-L1, programmed death-ligand 1; PO, orally; Q3W, every 3 weeks; QD, every day; R, randomized; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1; ROS1, ROS proto-oncogene 1, receptor tyrosine kinase; TC, tumor cell

## Study Endpoints

### Primary endpoints

- OS
- PFS. IRC-assessed, based on RECIST v1.1

#### · Secondary endpoints

- PFS. INV-assessed, based on RECIST v1.1
- · ORR. DoR. and DCR. IRC-assessed, based on RECIST v1.1
- · HRQoL, defined as changes in PROs
- · Incidence and severity of TEAEs
- · PK parameters for sitravatiniba

#### Exploratory endpoints

- · ORR, DoR and DCR, INV-assessed, based on RECIST v1.1
- The predictive and prognostic effect of PD-L1 expression
- Plasma concentrations and the derived PK parameters of the active sitravatinib metabolite M10a
- · Serum concentrations of tislelizumab and incidence of anti-drug antibodies
- Potential biomarkers and their association with disease status, and response/resistance to combination treatment

alf data permit. Abbreviations: DCR, disease control rate; DoR, duration of response; HRQoL, healthrelated quality of life: INV, investigator; IRC, independent review committee; ORR, objective response rate; OS, overall survival; PD-L1, programmed death-ligand 1; PFS, progression-free survival; PK, pharmacokinetic; PRO, patient-reported outcome; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1; TEAE, treatment-emergent adverse event.

- References
  WHO, Lung SOURCE: Globocan 2020. Available at: https://gco.iarc.fr/today/data/factsheets/cancers/15-Lung-fact-sheet.pdf. Accessed August 2022.
- Lu S, et al. J Thorac Oncol. 2021;16(9):1512-1522. Xia L, et al. Oncologist. 2019;24(1):S31-S41
- Zhang T. et al. Cancer Immunol Immunother. 2018;67(7):1079-1090. Dahan R, et al. Cancer Cell. 2015;28(3):285-295.

- Wang J. et al. JAMA Oncol. 2021;7:709-717.
- Du W. et al. JCI Insight, 2018;3:e124184. Percent L, et al. J Clin Oncol. 2020;38(15):TPS9635.
- Pircher A, et al. Int J Mol Sci. 2017;18(11):2291.
- Marshall HT and Djamgoz BA. Front Oncol. 2018;8:315. 11. Varyathu H, et al. Front Oncol. 2021;11:559161

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