

Results from a Phase II study of efitlagimod alpha (soluble LAG-3 protein) and pembrolizumab in patients with PD-L1 unselected metastatic 2nd line squamous head and neck carcinoma

Presenting Author: Dr. Irene Braña

Authors: I Braña¹, M Forster², A Lopez Pousa³, B Doger⁴, P Roxburgh⁵, P Bajaj⁶, D Urueta⁷, V Quiroga⁸, M Krebs⁹, C Mueller¹⁰, F Triebel¹¹

Affiliates: ¹Vall d'Hebron University Hospital, Vall d'Hebron Institute of Oncology (VHIO), Barcelona, Spain; ² UCL Cancer Institute / University College London Hospitals NHS Foundation, London, UK; ³ Hospital de la Santa Creu i Sant Pau, Barcelona, Spain; ⁴ START Madrid- Fundación Jiménez Díaz, Madrid, Spain; ⁵Institute of Cancer Sciences, University of Glasgow and The Beatson West of Scotland Cancer Centre, Glasgow, UK; ⁶ Tasman Oncology, Queensland, Australia; ⁷ Oncology Consultants, P.A., Houston, USA; ⁸ Catalan Institute of Oncology Badalona-Hospital Germans Trias i Pujol, B-ARGO group; Badalona, Spain; ⁹ Division of Cancer Sciences, The University of Manchester and The Christie NHS Foundation Trust, Manchester, UK; ¹⁰ Clinical Development, Immutep GmbH, Berlin, Germany; ¹¹ Research & Development, Immutep S.A.S., Orsay, France

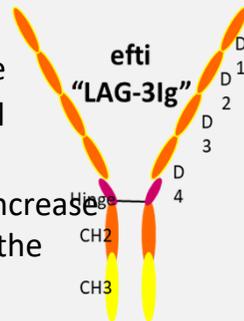


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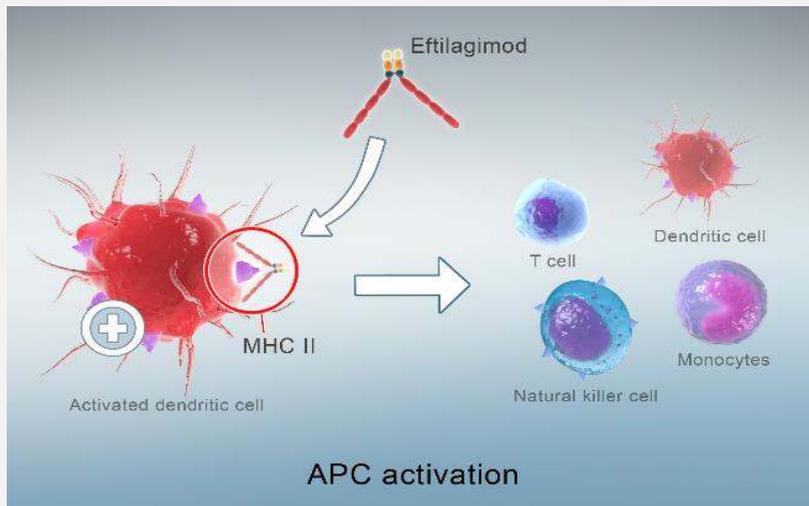
Eftilagimod alpha (efti) MoA

MoA: Efti is a soluble LAG-3 protein targeting a subset of MHC class II molecules to mediate antigen presenting cells (APCs) and CD8 T-cell activation.

Rationale: Efti activates APCs, leading to an increase in activated T cells, thus potentially reducing the number of non-responders to PD-1/PD-L1 antagonists (e.g. pembrolizumab).

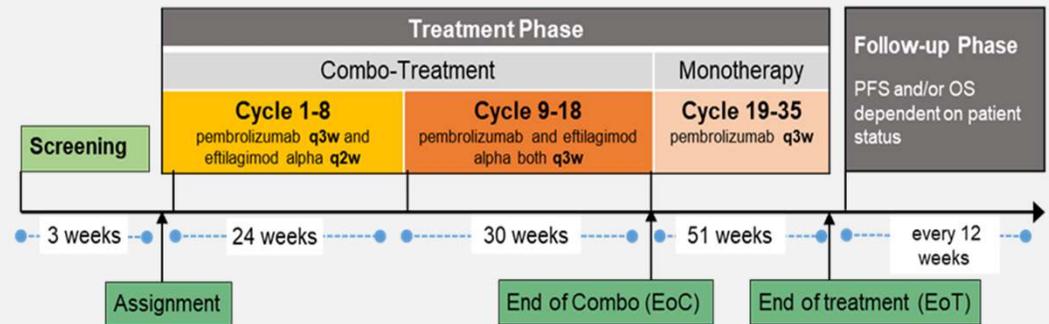


“PUSHING THE ACCELERATOR ON IMMUNE RESPONSES”



TACTI-002 TRIAL DESIGN & INTRODUCTION

- Phase II, multinational, open label, PD-L1 all-comer, multiple indications
- Up to 183 pts in a Simon's optimal two-stage design ([NCT03625323](#))
- Sponsored by Immutep and in collaboration with MSD



Legend: 1 cycle = 3 weeks; q2w – every 2 weeks, q3w every 3 weeks

- Following patients are eligible to part C (2nd line HNSCC):
 - patients **unselected for PD-L1** with recurrent HNSCC disease unamenable to curative treatment with local or systemic therapy, or metastatic (disseminated) disease incurable by local therapies, who progressed on or after 1st line platinum-based therapy
- 39 patients were enrolled to stage 1 + 2 (LPI in Jan 2021)
- Primary objective: Overall Response Rate acc. to iRECIST**
- Secondary objectives include PFS, OS, PK, biomarker, PD, safety and tolerability
- Data cut-off: 16th April 2021 (interim data)

TACTI-002: Phase II of efti and pembrolizumab in 2nd line HNSCC (Part C)

SAFETY*

Table 1: Treatment-emergent adverse events occurring $\geq 10\%$ *

Adverse event (PT)	Any grade N (%)	Grade 3 N (%)	Grade 4/5 N (%)
Hypothyroidism	8 (20.5)	1 (2.6)	-
Cough	7 (17.9)	-	-
Asthenia	6 (15.4)	-	-
Fatigue	5 (12.8)	-	-
Anaemia	5 (12.8)	4 (10.3)	-
Diarrhoea	5 (12.8)	-	-
Weight decreased	5 (12.8)	-	-
URTI	4 (10.3)	-	-
Back pain	4 (10.3)	-	-
Pain in extremity	4 (10.3)	2 (5.1)	-

Table 2: General overview of adverse events*

Safety parameter	N (%)
Patients with any TEAE	35 (89.7)
Patients with any SAE	18 (46.2)
thereof related to efti/pembro	2 (5.1) / 2 (5.1)
Patients with any grade ≥ 3 TEAE	24 (61.5)
thereof related to efti/pembro	4 (10.3) / 3 (7.7)
Patients with fatal TEAEs	7 (17.9)
thereof related to efti/pembro	0 / 0
Patients with TEAEs leading to discontinuation of any study treatment	7 (17.9)
thereof related to efti/pembro	1 (2.6)

* - Safety is displayed for all patients (N=39) recruited who received ≥ 1 treatment

TACTI-002: Phase II of efti and pembrolizumab in 2nd line HNSCC (Part C)

BASELINE CHARACTERISTICS & EFFICACY*

Table 3: Baseline disease characteristics

Baseline parameters (N=39)	N (%)
Age, median (years)	62 (37-84)
Female / Male	4 (10.3) / 35 (89.7)
ECOG 0 / ECOG 1	13 (33.3) / 26 (66.7)
Current / Ex- or Non-smokers	6 (15.4) / 33 (84.6)
Previous chemotherapy	39 (100)
Previous cetuximab	16 (41.0)
Lung lesions / Liver lesions	19 (48.7) / 6 (17.6)

Table 4: Primary tumor location

Primary tumour location (N=39)	N (%)
Oral cavity	12 (30.8)
Oropharynx	14 (35.9)
Hypopharynx	7 (17.9)
Larynx	6 (15.4)

Table 5: Tumor response*

Best overall response*, iRECIST	Investigator assessment N (%)
Complete Response	5 (13.5)
Partial Response	6 (16.2)
Stable Disease	3 (8.1)
Progression	17 (45.9)
Not evaluable**	6 (16.2)
Disease Control Rate	14 (37.8)
Overall Response Rate [95 % CI interval]	11 (29.7) [15.9 – 47.0]
Overall Response Rate – Evaluable pts*** [95 % CI interval]	11 (35.5) [19.2 – 54.6]

* - All patients (N=37) with ≥ 1 treatment and no death due to COVID-19 prior to first post-baseline staging

** - dropped off prior to first staging or were not evaluable post-baseline for any reason

*** - evaluable patients (N=31): ≥ 1 treatment and ≥ 1 post baseline tumor staging

TACTI-002: Phase II of efti and pembrolizumab in 2nd line HNSCC (Part C) EFFICACY*

Figure 1: Waterfall plot**

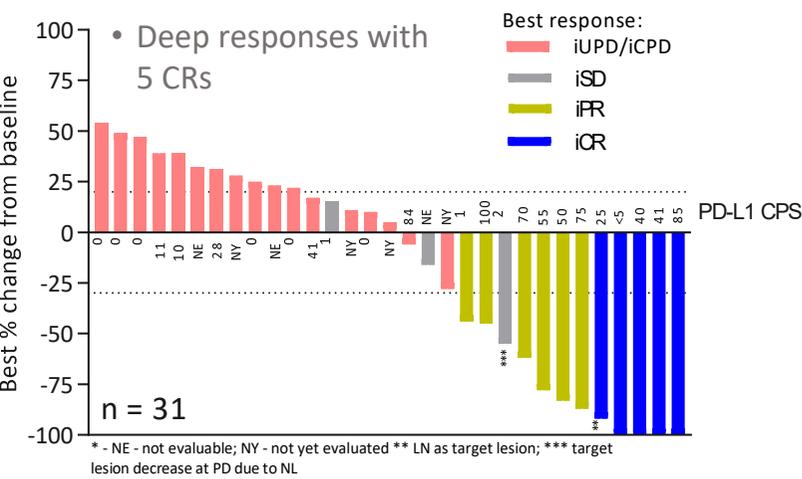


Figure 2: Kaplan-Meier Plot PFS*

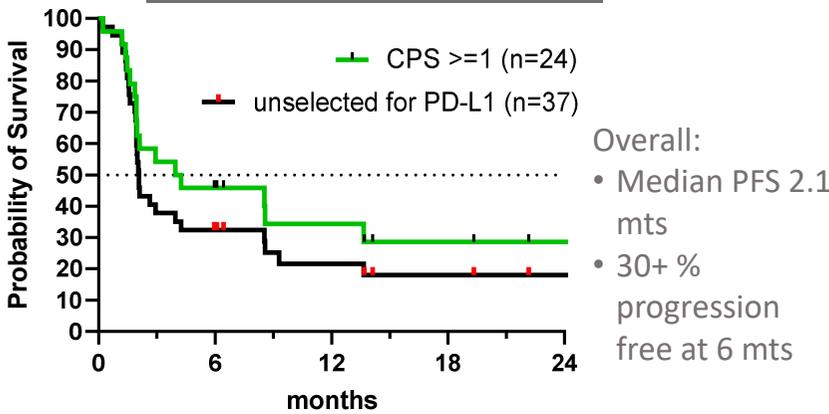


Figure 3: Duration of response (DOR) for confirmed responders

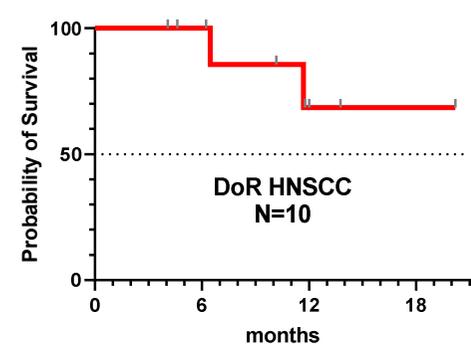
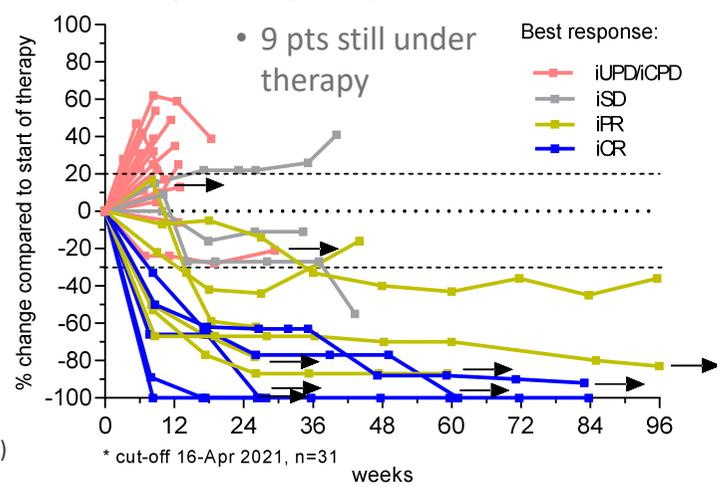


Table 6. ORR, PFS, DoR, OS for pts with CPS ≥ 1 (N=24)*

OS (58 % events)	PFS (71 % events)	ORR iRECIST (95 % CI)
<ul style="list-style-type: none"> Median 12.6 mts 54 % alive at 12 mts 	<ul style="list-style-type: none"> Median 4.1 mts 45 % PFS free at 6 mts 	<p>45.8 % (25.6-67.2)</p>

Figure 4: Spider plot**



Duration of response

- 91 % confirmed responses
- 80 % confirmed responses ongoing (censoring at 4-20 months → Figure 3)
- No progression prior to 6 months DOR
- Median duration of response cannot be estimated yet

* ≥ 1 treatment and no death due to COVID-19 prior to first post-baseline staging (N=37)
** ≥ 1 post baseline tumor staging (N=31)

TACTI-002: Phase II of efti and pembrolizumab in 2nd line HNSCC (Part C)

CONCLUSION

SAFETY

- Treatment with efti plus pembrolizumab is well-tolerated with no new safety signals
- Majority of most frequent adverse events are mild to moderate
- Safety profile compares well to KN-040 (pembrolizumab monotherapy)

EFFICACY

- Encouraging ORR (30 % acc. to iRECIST) in patients unselected for PD-L1
- 13.5 % complete responses observed
- Responses were durable with median DOR not yet reached
- In pts with PD-L1 CPS ≥ 1 , ORR was 45.8 % (95 % CI 25.6-67.2), median PFS of 4.1 months and median OS of 12.6 months
- Efficacy in PD-L1 CPS ≥ 1 encouraging compared to KN-040 (PIII, randomized trial)

The combination of efti plus pembrolizumab is well-tolerated and shows encouraging signs of activity supporting further clinical investigation. A study in 1st line HNSCC patients has been initiated (NCT04811027).