

## Lorigerlimab

<b>Cat. No.:</b>	HY-P99714
<b>CAS No.:</b>	2416595-46-3
<b>Target:</b>	PD-1/PD-L1; CTLA-4
<b>Pathway:</b>	Immunology/Inflammation
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Lorigerlimab (MGD019) is a bispecific IgG4 dual-affinity re-targeting antibody (DART). Lorigerlimab can block PD-1 and CTLA-4, and improves T-cell responses. Lorigerlimab can be used for research of metastatic castration-resistant prostate cancer (mCRPC) <sup>[1][2][3]</sup> .								
<b>In Vitro</b>	Lorigerlimab (0.01 nM-1 nM) binds to Jurkat/PD-1 cells and blocks PD-L1 binding to the cells <sup>[2]</sup> . Lorigerlimab can independently engage and block PD-1 and CTLA-4 on cells expressing one or the other checkpoint molecule (EC <sub>50</sub> : 0.42 nM for PD-1+ cells, 4.8 nM for CTLA-4+ cells, 0.013 nM for PD-1 and CTLA-4+ cells) <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
<b>In Vivo</b>	Lorigerlimab (75 mg/kg, i.v.) shows CTLA-4 blockade in in cynomolgus monkeys <sup>[2]</sup> . Lorigerlimab (10-100 mg/kg, i.v., 4 weeks) is well tolerated in cynomolgus monkeys, and shows a half-life about 7 days <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>Cynomolgus monkeys <sup>[4]</sup></td> </tr> <tr> <td>Dosage:</td> <td>75 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.v.</td> </tr> <tr> <td>Result:</td> <td>Increased the Ki67+ T cell fraction, and showed T cell expansion in the spleen.</td> </tr> </table>	Animal Model:	Cynomolgus monkeys <sup>[4]</sup>	Dosage:	75 mg/kg	Administration:	i.v.	Result:	Increased the Ki67+ T cell fraction, and showed T cell expansion in the spleen.
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### REFERENCES

[1]. Jason J. Luke, et al. Lorigerlimab, a bispecific PD-1×CTLA-4 DART molecule in patients (pts) with metastatic castration-resistant prostate cancer (mCRPC): A phase 1 expansion (exp) cohort. *Journal of Clinical Oncology* 2023 41:6\_suppl, 155-155.

[2]. Berezhnoy A, et al. Development and Preliminary Clinical Activity of PD-1-Guided CTLA-4 Blocking Bispecific DART Molecule. *Cell Rep Med.* 2020 Dec 22;1(9):100163.

[3]. Trojaniello C, Luke JJ, Ascierto PA. Therapeutic Advancements Across Clinical Stages in Melanoma, With a Focus on Targeted Immunotherapy. *Front Oncol.* 2021 Jun 10;11:670726.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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