Product Data Sheet

Zenocutuzumab

Cat. No.: HY-P99507 CAS No.: 1969309-56-5

Target: **EGFR**

JAK/STAT Signaling; Protein Tyrosine Kinase/RTK Pathway:

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

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Zenocutuzumab (MCLA-128) is a bispecific humanized IgG1 antibody containing two different Fab arms, targeting extracellular domains of HER2 and HER3^[1].

In Vitro

Zenocutuzumab (0.001-1000 nM; 96 hours) inhibits cell growth in lung and breast cancer cell lines^[1].

Zenocutuzumab (0.1-1000 nM; 24 hours) inhibits HER3 and AKT phosphorylation, induces markers of apoptosis and cell cycle arrest in lung and breast cancer cell lines^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

| Cell Line: | Human bronchiolar epithelial cell lines (HBEC) |
|------------------|--|
| Concentration: | 0.001 nM, 0.01 nM, 0.1 nM, 1 nM, 10 nM, 100 nM, 1000 nM |
| Incubation Time: | 96 h |
| Result: | Reduced the growth of isogenic HBEC expressing either CD74-NRG1 or VAMP2-NRG1 fusions. |

Western Blot Analysis^[1]

| Cell Line: | HBEC-CD74-NRG1, LUAD-0061AS3, MDA-MB-175-VII cells |
|------------------|---|
| Concentration: | 0.1 nM, 1 nM, 10 nM, 100 nM, 1000 nM |
| Incubation Time: | 24 hours |
| Result: | Inhibited HER3, STAT3, AKT, p70S6K, and S6 phosphorylation. |

In Vivo

Zenocutuzumab (2.5-25 mg/kg; i.p.; once weekly; for 28 days) causes a statistically significant reduction of growth, including tumor regression^[1].

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| Animal Model: | 6 to 12-week-old female NSG™ (LUAD-0061AS3), BALB/c nude (OV-10–0050) or athymic |
|---------------|--|

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| | nude (ST2891, ST3204 and CTG-0953) mice injected with NRG1 fusion-positive patient derived xenograft (PDX) tumors ^[1] . |
|-----------------|--|
| Dosage: | 2.5 mg/kg, 8 mg/kg, or 25 mg/kg |
| Administration: | i.p.; once weekly; for 28 days |
| Result: | Blocked growth of lung and ovarian cancer PDX models. |

REFERENCES

[1]. Alison M Schram, et al. Zenocutuzumab, a HER2xHER3 Bispecific Antibody, Is Effective Therapy for Tumors Driven by NRG1 Gene Rearrangements. Cancer Discov. 2022 May 2;12(5):1233-1247.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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