Obrindatamab

Cat. No.:	HY-P99762
CAS No.:	2069959-72-2
Target:	CD3
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Obrindatamab is a humanized anti-B7-H3/CD3 bispecific antibody. Obrindatamab binds to B7-H3 and CD3, thereby mediating redirected cytotoxic T-lymphocyte (CTL) activity against B7-H3-expressing cancer cells. Obrindatamab can be used in research of cancer[1].

In Vitro

MGD009 (MGD009) binds human and cynomolgus monkey CD3 and B7-H3 with K_D values of 13.9, 14.7, 24.6, and 30.2 nM for human CD3ε/δ, cynomolgus CD3ε/δ, human B7-H3-His, and cynomolgus B7-H3-His, respectively[1].
Obrindatamab (0.01-1000 ng/mL; A498, U87, 22Rv1, and Detroit562 cells) mediates redirected killing of multiple B7-H3-expressing tumor lines[1].
Obrindatamab (0.01-1000 ng/mL; PBMCs and A498 cells) mediated T-cell activation and proliferation is target antigen dependent[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Obrindatamab (MGD009; 0.004-1 mg/kg; i.v.) inhibits growth and tumor regression of B7-H3-expressing tumor xenografts in human T cell or PBMC-reconstituted mice[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	NOD/SCID mice with Co-mix mouse xenograft model, Established tumor model in human T-cellreconstituted NSG b2m$^{-/-}$ mice, Established tumor model in human T-cell reconstituted MHC1$^{-/-}$ mice[1]
Dosage:	0.004-1 mg/kg
Administration:	intravenous injection
Result:	Had antitumor activity in multiple in vivo models.

REFERENCES

[1]. Paul M, et, al. MGD009, a B7-H3 x CD3 Bispecific Dual-Affinity Re-Targeting (DART®) Molecule Directing T Cells to Solid Tumors.

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

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