CTX-471

Cat. No.:	HY-P99178
CAS No.:	2377152-49-1
Molecular Formula:	CT
Target:	Interleukin Related
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	CTX-471 is a fully human monoclonal antibody of CD137. CTX-471 has bind affinity for recombinant human, cynomolgus macaque CD137 and mouse CD137 with K_d values of 50 nM, 61 nM and 748 nM, respectively. CTX-471 can be used for the research of immunomodulation and cancer[1].
IC_{50} & Target	Kd for CD137: 50 nM (human); 61 nM (cynomolgus macaque); 748 nM (mouse)[1]
In Vitro	CTX-471 (5-500 nM) has bind affinity for recombinant human, cynomolgus macaque CD137 and mouse CD137 with K_d values of 50 nM, 61 nM and 748 nM, respectively[1]. CTX-471 binds to a unique epitope on CD137[1]. CTX-471 (0.1-100 nM; 1, 10 μg/mL; 3 days) increases IFN-y production by human T cells in an Fcy receptor-dependent (FcyR-dependent) manner in vitro[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	CTX-471 (i.p.; 150 μg) exhibits curative monotherapy activity in various syngeneic tumor models and shows a unique ability to cure mice of very large tumors.CTX-471 (i.v.; 10-80 mg/kg; on days 0, 7, 14, and 21) is well tolerated, with no signs of hepatic toxicity in high doses. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	BALB/c mice[1]
Dosage:	150 μg; 10-80 mg/kg
Administration:	i.p., on days 6, 9, 12, 19 and 26(or on days 7, 10, 13, 20, and 27 or on days 0, 3, 6, and 9); i.v., on days 0, 7, 14, and 21
Result:	Required T and NK cells, as well as FcγR engagement to achieve its efficacy. Do not induce hepatic inflammation.

REFERENCES

[1]. Ugur Eskiocak, et al. Differentiated agonistic antibody targeting CD137 eradicates large tumors without hepatotoxicity. JCI Insight. 2020 Mar 12;5(5):e133647.

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

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