Cixutumumab

Cat. No.:	HY-P99189
CAS No.:	947687-12-9
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Cixutumumab (IMC-A12) is a human anti-IGF-1R monoclonal antibody with high affinity that inhibits ligand-dependent receptor activation and downstream signaling. Cixutumumab also mediates the internalization and degradation of IGF-IR. Cixutumumab shows broad-spectrum anti-tumour activity and can be used in studies of cancers such as lung cancer, malignancies, leukaemia, non-small cell lung cancer and prostate cancer[1].

IC_{50} & Target

IGF-1R[1].

In Vitro

Cixutumumab (IMC-A12) (0.01-100 nM; 96 h) exhibits at least 50% growth inhibition in CHLA-9, TC-71and Rh41 cells[1].

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

Cell Viability Assay[1]

Cell Line:	CHLA-9, TC-71, Rh41 cells
Concentration:	0.01-100 nM
Incubation Time:	96 h
Result:	Inhibited CHLA-9, TC-71and Rh41 cells growth with IC_{50} values of 49.31, 0.66 and 0.04 nM, respectively.

In Vivo

Cixutumumab (IMC-A12) (1 mg/rat; i.p.; twice weekly for 6 weeks) shows broad-spectrum antitumor activity, inhibits tumor growth of the PPTP's in vivo solid tumor panels[1].

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Animal Model:	CB17SC-M $scid^{-/-}$ female mice (solid tumor xenografts model)[1].
Dosage:	1 mg/rat
Administration:	Intraperitoneal injection; twice weekly for 6 weeks.
Result:	Demonstrated broad antitumor activity against the PPTP's in vivo solid tumor panels, with the activity primarily being tumor growth inhibition rather than tumor regression.

REFERENCES

[1]. Houghton PJ, et al. Initial testing of a monoclonal antibody (IMC-A12) against IGF-1R by the Pediatric Preclinical Testing Program. Pediatr Blood Cancer. 2010 Jul 1;54(7):921-6.

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