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Ubamatamab

Cat. No.:	HY-P99539
CAS No.:	2305629-50-7
Target:	CD3
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Ubamatamab (REGN4018) is a humanized bispecific antibody targeted against Mucin 16 (MUC16) and CD3. Ubamatamab demonstrates potent antitumor activity ^[1] .												
In Vitro	<p>Ubamatamab (REGN4018; 0.1 pM-10 nM; 48 hours) induces human T cells and cynomolgus T cells to kill OVCAR-3 cells (EC50, 13.6 pM and 30.6 pM, respectively)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>OVCAR-3 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.1 pM-10 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 hours</td> </tr> <tr> <td>Result:</td> <td>Induced human T cells and cynomolgus T cells to kill OVCAR-3 cells.</td> </tr> </table>	Cell Line:	OVCAR-3 cells	Concentration:	0.1 pM-10 nM	Incubation Time:	48 hours	Result:	Induced human T cells and cynomolgus T cells to kill OVCAR-3 cells.				
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In Vivo	<p>Ubamatamab (REGN4018; 0.01-0.5 mg/kg; i.p; on days 6, 10, 13, 16, and 21) potentially inhibits growth of intraperitoneal ovarian tumors^[1].</p> <p>Ubamatamab (REGN4018; 0.01-1 mg/kg; i.p; once a week; total of five doses) shows minimal and transient increases in serum cytokines and C-reactive protein, with no overt toxicity^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>NOD SCID gamma (NSG) mice injected with OVCAR-3/Luc cells^[1]</td> </tr> <tr> <td>Dosage:</td> <td>0.01 mg/kg, 0.1 mg/kg, 0.5 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.p; on days 6, 10, 13, 16, and 21</td> </tr> <tr> <td>Result:</td> <td>Significantly reduced tumor burden, and did not result in any changes in weight.</td> </tr> </table> <table border="1"> <tr> <td>Animal Model:</td> <td>Cynomolgus monkeys</td> </tr> <tr> <td>Dosage:</td> <td>0.01, 0.1, or 1 mg/kg</td> </tr> </table>	Animal Model:	NOD SCID gamma (NSG) mice injected with OVCAR-3/Luc cells ^[1]	Dosage:	0.01 mg/kg, 0.1 mg/kg, 0.5 mg/kg	Administration:	i.p; on days 6, 10, 13, 16, and 21	Result:	Significantly reduced tumor burden, and did not result in any changes in weight.	Animal Model:	Cynomolgus monkeys	Dosage:	0.01, 0.1, or 1 mg/kg
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Result:	Showed minimal and transient increases in serum cytokines and C-reactive protein.

REFERENCES

[1]. Alison Crawford, et al. A Mucin 16 bispecific T cell-engaging antibody for the treatment of ovarian cancer. Sci Transl Med. 2019 Jun 19;11(497):eaau7534.

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

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