

## Benufutamab

Cat. No.:	HY-P99470
CAS No.:	2109730-69-8
Target:	TNF Receptor; Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Benufutamab (GEN1029) is a death receptor 5 (DR5)-specific agonistic antibody. Benufutamab is a mixture of 2 noncompeting DR5-specific IgG1 antibodies, each with an E430G mutation in the Fc domain. Benufutamab has antitumor effects <sup>[1]</sup> .									
<b>In Vitro</b>	<p>Benufutamab (GEN1029; HexaBody-DR5/DR5; 20 µg/mL; 24 hours) induces potent cytotoxicity in multiple myeloma (MM) cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>Multiple myeloma (MM) cells</td> </tr> <tr> <td>Concentration:</td> <td>20 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Induced potent cytotoxicity.</td> </tr> </table>		Cell Line:	Multiple myeloma (MM) cells	Concentration:	20 µg/mL	Incubation Time:	24 hours	Result:	Induced potent cytotoxicity.
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<b>In Vivo</b>	<p>Benufutamab (GEN1029; HexaBody-DR5/DR5; 0.5-2 mg/kg; i.p.; once a week; for 9 weeks) shows significant antitumor activity in PDX models for colorectal cancer<sup>[2]</sup>.</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>Balb/c athymic nude or NU/NU nude mice injected with colorectal cancer (CRC) cells<sup>[2]</sup></td> </tr> <tr> <td>Dosage:</td> <td>0.5 mg/kg, or 2 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.p.; once a week; for 9 weeks</td> </tr> <tr> <td>Result:</td> <td>Showed significant antitumor activity.</td> </tr> </table>		Animal Model:	Balb/c athymic nude or NU/NU nude mice injected with colorectal cancer (CRC) cells <sup>[2]</sup>	Dosage:	0.5 mg/kg, or 2 mg/kg	Administration:	i.p.; once a week; for 9 weeks	Result:	Showed significant antitumor activity.
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### REFERENCES

[1]. Hilma J van der Horst, et al. Potent preclinical activity of HexaBody-DR5/DR5 in relapsed and/or refractory multiple myeloma. Blood Adv. 2021 Apr 27;5(8):2165-2172.

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

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