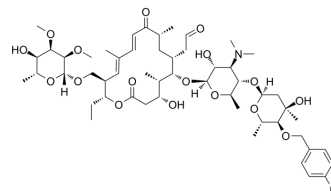


## ABBV-4083

Cat. No.:	HY-111757
CAS No.:	1809266-03-2
Molecular Formula:	C <sub>53</sub> H <sub>82</sub> FNO <sub>17</sub>
Molecular Weight:	1024.21
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	ABBV-4083 is an analog of Tylosin A that has potent anti-Wolbachia and anti-filarial activity <sup>[1]</sup> .								
In Vivo	<p>ABBV-4083 (150 mg/kg, once daily for 14 days) reduces Wolbachia levels (measured 16 weeks post-treatment-initiation, pti) in mice by &gt;99.9% in the recovered female adult worms. Levels of circulating microfilariae declines from ~7 weeks pti and are completely cleared from 12 weeks pti until the end of this study at 16 weeks pti<sup>[1]</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>Female BALB/c mice or female jirds were infected at 6–8 weeks of age with <i>L. sigmodontis</i> larvae through the bites of <i>Ornithonyssus bacoti</i> mites<sup>[1]</sup>.</td> </tr> <tr> <td>Dosage:</td> <td>150 mg/kg.</td> </tr> <tr> <td>Administration:</td> <td>PO once daily for 14 days started at 14 weeks post infection (pti).</td> </tr> <tr> <td>Result:</td> <td> <p>Wolbachia levels (measured 16 weeks post-treatment-initiation, pti) were reduced by &gt;99.9% in the recovered female adult worms.</p> <p>Starting at ~7 weeks pti, levels of circulating microfilariae declined and were completely cleared from 12 weeks pti until the end of this study at 16 weeks pti.</p> </td> </tr> </table>	Animal Model:	Female BALB/c mice or female jirds were infected at 6–8 weeks of age with <i>L. sigmodontis</i> larvae through the bites of <i>Ornithonyssus bacoti</i> mites <sup>[1]</sup> .	Dosage:	150 mg/kg.	Administration:	PO once daily for 14 days started at 14 weeks post infection (pti).	Result:	<p>Wolbachia levels (measured 16 weeks post-treatment-initiation, pti) were reduced by &gt;99.9% in the recovered female adult worms.</p> <p>Starting at ~7 weeks pti, levels of circulating microfilariae declined and were completely cleared from 12 weeks pti until the end of this study at 16 weeks pti.</p>
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### REFERENCES

[1]. von Geldern TW, et al. Discovery of ABBV-4083, a novel analog of Tylosin A that has potent anti-Wolbachia and anti-filarial activity. PLoS Negl Trop Dis. 2019 Feb 28;13(2):e0007159.

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

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