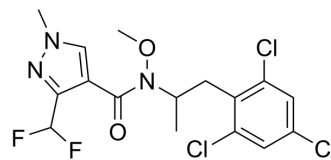


Pydiflumetofen

Cat. No.:	HY-150127
CAS No.:	1228284-64-7
Molecular Formula:	C ₁₆ H ₁₆ Cl ₃ F ₂ N ₃ O ₂
Molecular Weight:	426.67
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pydiflumetofen is a new generation of succinate dehydrogenase inhibitor fungicide ^[1] .								
IC₅₀ & Target	Succinate dehydrogenase ^[1]								
In Vitro	<p>Pydiflumetofen (0-4 µg/mL; 3 days) inhibits <i>F. asiaticum</i> mycelial growth and conidium germination^[1]. Pydiflumetofen shows no positive or negative cross-resistance with Carbendazim (HY-13582)/phenamacril. 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><i>Fusarium asiaticum</i></td> </tr> <tr> <td>Concentration:</td> <td>0, 0.015625, 0.0625, 0.25, 1 and 4 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>3 days</td> </tr> <tr> <td>Result:</td> <td>Suppressed mycelial growth with EC₅₀s of 0.019-0.2084 µg/mL and suppressed conidium germination with EC₅₀s of 0.0583-0.4237 µg/mL against 116 isolates of <i>F. asiaticum</i>.</td> </tr> </table>	Cell Line:	<i>Fusarium asiaticum</i>	Concentration:	0, 0.015625, 0.0625, 0.25, 1 and 4 µg/mL	Incubation Time:	3 days	Result:	Suppressed mycelial growth with EC ₅₀ s of 0.019-0.2084 µg/mL and suppressed conidium germination with EC ₅₀ s of 0.0583-0.4237 µg/mL against 116 isolates of <i>F. asiaticum</i> .
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REFERENCES

[1]. Hou Y P, et al. Sensitivity of *Fusarium asiaticum* to a novel succinate dehydrogenase inhibitor fungicide pydiflumetofen[J]. Crop Protection, 2017, 96: 237-244.

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

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