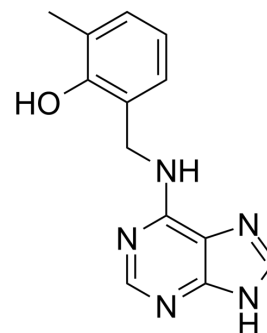


PI-55

Cat. No.:	HY-141519
CAS No.:	1122579-42-3
Molecular Formula:	C ₁₃ H ₁₃ N ₅ O
Molecular Weight:	255.28
Target:	Parasite; Others
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PI-55 is a specific cytokinin receptor inhibitor. PI-55 is structurally related to 6-benzylaminopurine (BAP) and was shown to inhibit competitively BAP binding on Arabidopsis-specific receptors CRE1/AHK4 and AHK3. PI-55 inhibits cytokinins induced haustorium formation and increased parasite aggressiveness ^[1] .
IC₅₀ & Target	Cytokinin receptor ^[1] . Parasiter ^[1]
In Vitro	PI-55 at high concentrations (10 μM and 100 μM), which causes an incomplete blocking of early haustorial structure development, especially when cytokinin activity promotes it. PI-55 treatment also reduces the overall aggressiveness of <i>P. ramosa</i> when applied with BAP in comparison with BAP alone, suggesting that the signaling pathway leading to early haustorial structure formation involves histidine kinase receptors homologous to CRE1/AHK4 and AHK3 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Goyet V, et al. Haustorium initiation in the obligate parasitic plant *Phelipanche ramosa* involves a host-exudated cytokinin signal. *J Exp Bot.* 2017;68(20):5539-5552.

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

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