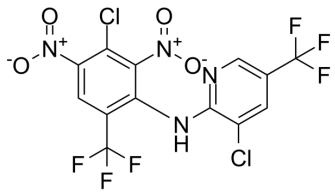
Fluazinam impurity 1

Cat. No.:	HY-100069
CAS No.:	169327-87-1
Molecular Formula:	$C_{13}H_4Cl_2F_6N_4O_4$
Molecular Weight:	465.09
Target:	Fungal
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Fluazinam impurity 1 is an impurity of Fluazinam with antifungal activity. Fluazinam impurity 1 is active against ***Sphaerotheca fuliginea***, ***Pyricularia oryzae*** and ***Rhizoctonia solani***[1].
IC_{50} & Target	Fungal[1]
In Vitro	Quantitative structure-activity relationships (QSAR) analyses of fungicidal activity of Fluazinam impurity 1 against Sphaerotheca fuliginea, Pyricularia oryzae and Rhizoctonia solani are carried out and the results are compared. In the case of S. fuliginea, a usual QSAR equation with Hammett's electronic parameter (sigma-m) and hydrophobicity (pi) is obtained, suggesting that the uncoupling mechanism might be involved in the mode of action. In the cases of P. oryzae and R. solani, QSAR equations are consisted of sigma-m, pi and the activity rank against Botrytis cinerea as independent variables,indicating both of uncoupling and SH-inhibition are working in the action mechanism[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Toshio Akagi, et al. Quantitative structure-activity relationships of fluazinam and related fungicidal N-phenylpyridinamines : preventive activity against Botrytis cinerea. Nippon Noyaku Gakkaishi (1995), 20(3), 279-90.

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