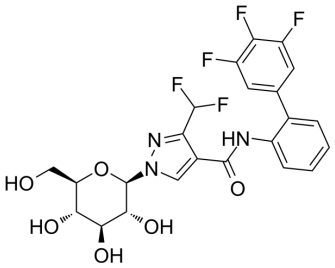
M700F048

Cat. No.:	HY-111741
CAS No.:	2056235-51-7
Molecular Formula:	$C_{23}H_{20}F_5N_3O_6$
Molecular Weight:	529.41
Target:	Fungal
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (188.89 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8889 mL	9.4445 mL	18.8890 mL
	5 mM	0.3778 mL	1.8889 mL	3.7778 mL
	10 mM	0.1889 mL	0.9444 mL	1.8889 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (4.72 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (4.72 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

M700F048 is a major plant metabolite of fungicide Fluxapyroxad[1].

In Vitro

M700F048 shows similar toxicity as the parent Fluxapyroxad[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Brancato A, et al. Modification of the existing maximum residue levels for fluxapyroxad in various crops. EFSA J. 2017 Sep 12;15(9):e04975.

[2]. Hyun H Noh, et al. Dissipation, persistence, and risk assessment of fluxapyroxad and penthiopyrad residues in perilla leaf (Perilla frutescens var. japonica Hara). PLoS One. 2019 Apr 9;14(4):e0212209.

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