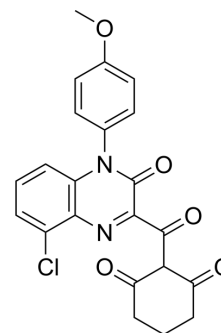


## Fenquino-trione

Cat. No.:	HY-111957
CAS No.:	1342891-70-6
Molecular Formula:	C <sub>22</sub> H <sub>17</sub> ClN <sub>2</sub> O <sub>5</sub>
Molecular Weight:	424.83
Target:	HPPD
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Fenquino-trione is a 4-hydroxyphenylpyruvate dioxygenase (HPPD) inhibitor with IC <sub>50</sub> s of 27.2 and 44.7nM against rice and Arabidopsis thaliana HPPD, respectively. Fenquino-trione is an herbicide that can control a wide range of broadleaf and sedge weeds with excellent rice selectivity <sup>[1]</sup> .
<b>In Vitro</b>	Fenquino-trione competes with the substrate, HPP <sup>[1]</sup> . Fenquino-trione forms two strong interactions with AtHPPD: a π-π interaction with Phe420 and hydrogen bonding with Gln335 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Yamamoto S, et al. Mechanism of action and selectivity of a novel herbicide, fenquino-trione. J Pestic Sci. 2021 Aug 20;46(3):249-257.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA