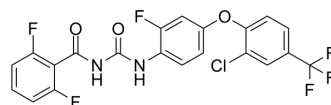


Flufenoxuron

| | |
|---------------------------|--|
| Cat. No.: | HY-B2009 |
| CAS No.: | 101463-69-8 |
| Molecular Formula: | C ₂₁ H ₁₁ ClF ₆ N ₂ O ₃ |
| Molecular Weight: | 488.77 |
| Target: | Others |
| Pathway: | Others |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

| | | | | | |
|---|--|--------------------------|--------------|------------|------------|
| In Vitro | DMSO : 250 mg/mL (511.49 mM; Need ultrasonic) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 2.0460 mL | 10.2298 mL | 20.4595 mL |
| | | 5 mM | 0.4092 mL | 2.0460 mL | 4.0919 mL |
| | | 10 mM | 0.2046 mL | 1.0230 mL | 2.0460 mL |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | <p>1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.26 mM); Clear solution</p> <p>2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.26 mM); Clear solution</p> | | | | |

BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Flufenoxuron is a chitin synthesis inhibitor that is used as a benzoylurea insecticide. Flufenoxuron decreases chitin synthesis, molting, and egg hatching, preventing development in insects ^[1] . |
|--------------------|--|

REFERENCES

[1]. Sunwoo Park, et al. Toxic Effects of Flufenoxuron on Development and Vascular Formation During Zebrafish Embryogenesis. Aquat Toxicol. 2019 Nov;216:105307.

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