Fipronil sulfone

Cat. No.: HY-125296

CAS No.: 120068-36-2

Molecular Formula: $C_{12}H_4Cl_2F_6N_4O_2S$

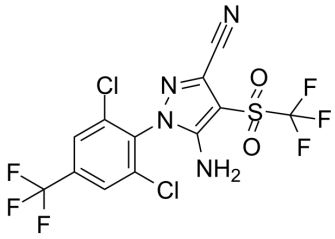
Molecular Weight: 453.15

Target: GABA Receptor

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

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 : 125 mg/mL (275.85 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2068 mL	11.0339 mL	22.0677 mL
	5 mM	0.4414 mL	2.2068 mL	4.4135 mL
	10 mM	0.2207 mL	1.1034 mL	2.2068 mL

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

BIOLOGICAL ACTIVITY

Description

Fipronil sulfone is the major metabolite of Fipronil.Fipronil sulfone selectively inhibits GABA receptor with IC_{50} of 175 nM (assayed by displacement of 4′-ethynyl-4-n-[2,3-3H2]- propylbicycloorthobenzoate ([3H]EBOB) from the noncompetitive blocker site).

REFERENCES

[1]. D Hainzl,et al. Mechanisms for selective toxicity of fipronil insecticide and its sulfone metabolite and desulfinyl photoproduct. Chem Res Toxicol . 1998 Dec;11(12):1529-35.

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

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