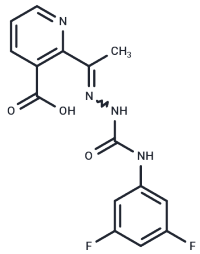
Data Sheet (Cat.No.T20833)

TargetMol

Diflufenzopyr

Chemical Properties



CAS No. : 109293-97-2

Formula: C15H12F2N4O3

Molecular Weight: 334.28

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Diflufenzopyr (SAN 835H), an auxin transport inhibitor, is semicarbazone-type.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 4.8 mg/mL (14.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9915 mL	14.9575 mL	29.915 mL
5 mM	0.5983 mL	2.9915 mL	5.983 mL
10 mM	0.2992 mL	1.4958 mL	2.9915 mL
50 mM	0.0598 mL	0.2992 mL	0.5983 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Grossmann K, Caspar G, Kwiatkowski J, Bowe SJ. On the mechanism of selectivity of the corn herbicide BAS 662H: a combination of the novel auxin transport inhibitor diflufenzopyr and the auxin herbicide dicamba. Pest Manag Sci. 2002 Oct;58(10):1002-14.

Korshun M, et al. [PREDICTING OF RISK OF SOIL CONTAMINATION BY DIFFERENT CLASSES OF FUNGICIDES IN SOIL AND CLIMATIC CONDITIONS OF UKRAINE]. Georgian Med News. 2016 Jul;(256-257):92-7. Russian.

Shirzadi A, Simpson MJ, Xu Y, Simpson AJ. Application of saturation transfer double difference NMR to elucidate the mechanistic interactions of pesticides with humic acid. Environ Sci Technol. 2008 Feb 15;42(4):1084-90.

Kelley KB, et al. Quantitative expression analysis of GH3, a gene induced by plant growth regulator herbicides in soybean. J Agric Food Chem. 2004 Feb 11;52(3):474-8.

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