Data Sheet (Cat.No.T20623)

TargetMol
A DRUG SCREENING EXPERT

Thifensulfuron-methyl

Chemical Properties

CAS No.:	79277-27-3
Formula:	C12H13N5O6S2
Molecular Weight:	387.38
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Thifensulfuron-methyl is a sulfonylurea (SU) herbicide, has an important role in the removal of broadleaf weeds.

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.581 mL	12.907 mL	25.814 mL
5 mM	0.516 mL	2.581 mL	5.163 mL
10 mM	0.258 mL	1.291 mL	2.581 mL
50 mM	0.052 mL	0.258 mL	0.516 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Zhao W, Xu L, Li D, Li X, Wang C, Zheng M, Pan C, Qiu L. Biodegradation of thifensulfuron-methyl by Ochrobactrum sp. in liquid medium and soil. Biotechnol Lett. 2015 Jul;37(7):1385-92. doi: 10.1007/s10529-015-1807-3. Epub 2015 Mar 15. PubMed PMID: 25773196.

2. Cessna AJ, Donald DB, Bailey J, Waiser M, Headley JV. Persistence of the sulfonylurea herbicides thifensulfuron-methyl, ethametsulfuron-methyl, and metsulfuron-methyl in farm dugouts (ponds). J Environ Qual. 2006 Oct 27;35(6):2395-401. Print 2006 Nov-Dec. PubMed PMID: 17071910.

3. Stry JJ, Amoo JS, George SW, Hamilton-Johnson T, Stetser E. Coupling of size-exclusion chromatography to liquid chromatography/mass spectrometry for determination of trace levels of thifensulfuron-methyl and tribenuron-methyl in cottonseed and cotton gin trash. J AOAC Int. 2000 May-Jun;83(3):651-9. PubMed PMID: 10868588.

4. Polati S, Bottaro M, Frascarolo P, Gosetti F, Gianotti V, Gennaro MC. HPLC-UV and HPLC-MSn multiresidue determination of amidosulfuron, azimsulfuron, nicosulfuron, rimsulfuron, thifensulfuron methyl, tribenuron methyl and azoxystrobin in surface waters. Anal Chim Acta. 2006 Oct 10;579(2):146-51. Epub 2006 Jul 22. PubMed PMID: 17723738.

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